

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-5119
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO
2. NAME OF OPERATOR SUPERIOR OIL COMPANY		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, CO. 81321		8. FARM OR LEASE NAME LONE MOUNTAIN CANYON
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1180' FNL, 500' FWL of Section 1 At proposed prod. zone Same		9. WELL NO. #1-11
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 9 miles southeast of Montezuma Creek, Utah		10. FIELD AND POOL, OR WILDCAT <del>UNDESIGNATED</del> LONE MOUNTAIN CANYON
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 500'	16. NO. OF ACRES IN LEASE 640	17. NO. OF ACRES ASSIGNED TO THIS WELL 40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1050'	19. PROPOSED DEPTH 5610'	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) Ungraded GL: 4712'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 1, T42S, R24E
23. PROPOSED CASING AND CEMENTING PROGRAM		12. COUNTY OR PARISH SAN JUAN
		13. STATE UTAH
		22. APPROX. DATE WORK WILL START* Oct. 15, 1984

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5#	120'	177 ft <sup>3</sup>
12-1/4"	9-5/8"	36#	1430'	920 ft <sup>3</sup> Lite + 177ft <sup>3</sup> CI 'B'
8-3/4"	7"	23#	5610'	590 ft <sup>3</sup>

Superior Oil proposes to drill the subject well and complete in the Ismay and/or Desert Creek formations.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 10/10/84  
BY: John R. Baga

RECEIVED

SEP 28 1984

DIVISION OF OIL  
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

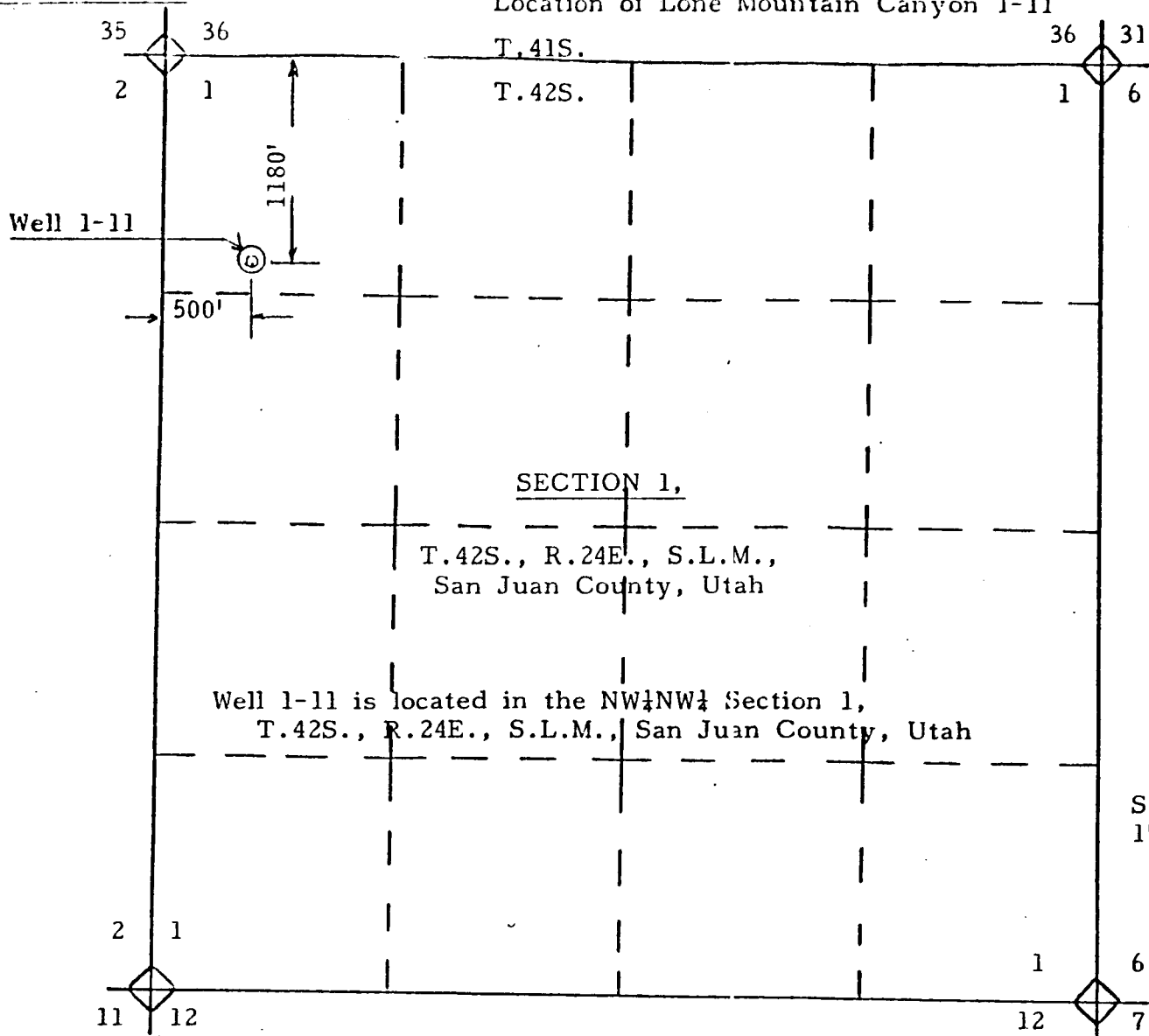
24. T. Greg Merrion  
SIGNED T. Greg Merrion TITLE Petroleum Engineer DATE 9-21-84  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

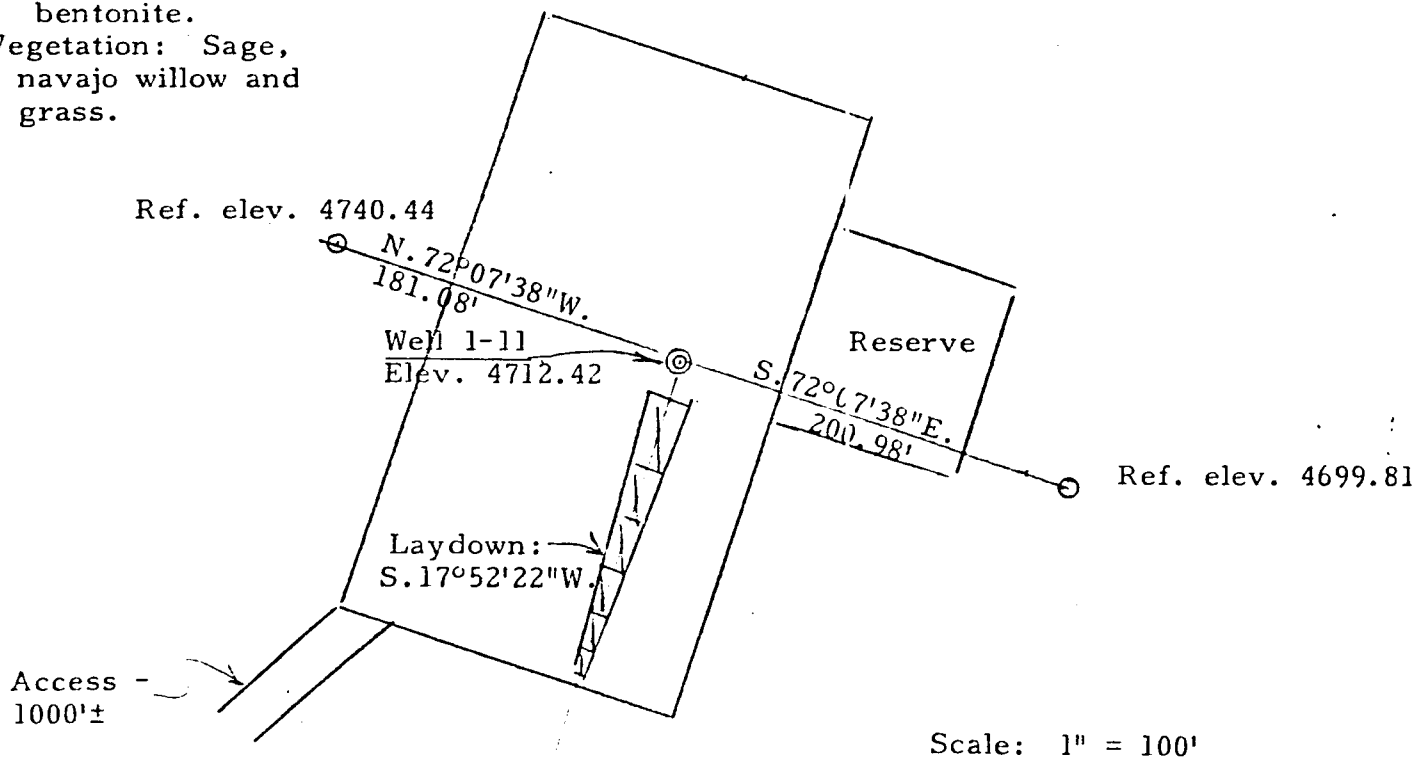
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



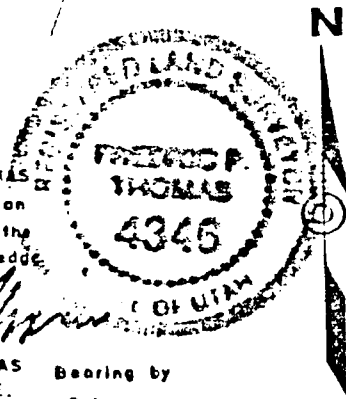
Soil: Sand above bentonite.  
Vegetation: Sage, navajo willow and grass.



KNOW ALL MEN BY THESE PRESENTS:  
THAT I, FREDRIC P. THOMAS  
do hereby certify that I prepared this plat from an  
actual and accurate survey of the land and that the  
same is true and correct to the best of my knowledge  
and belief.

*Fredric P. Thomas*  
FREDRIC P. THOMAS  
Reg. L.S. and P.E.  
Colo. Reg. No. 6728

Bearing by  
Solar  
observation

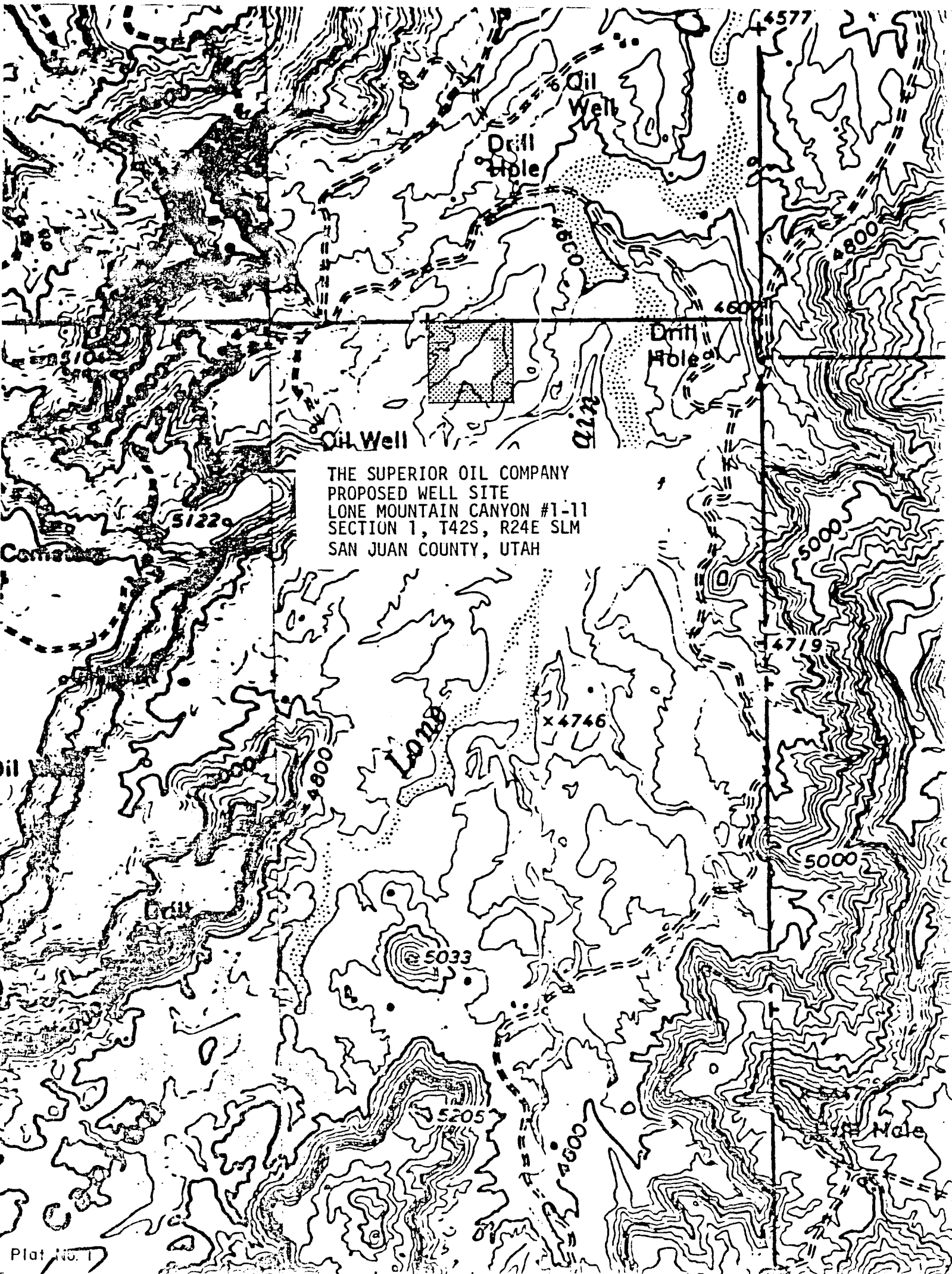


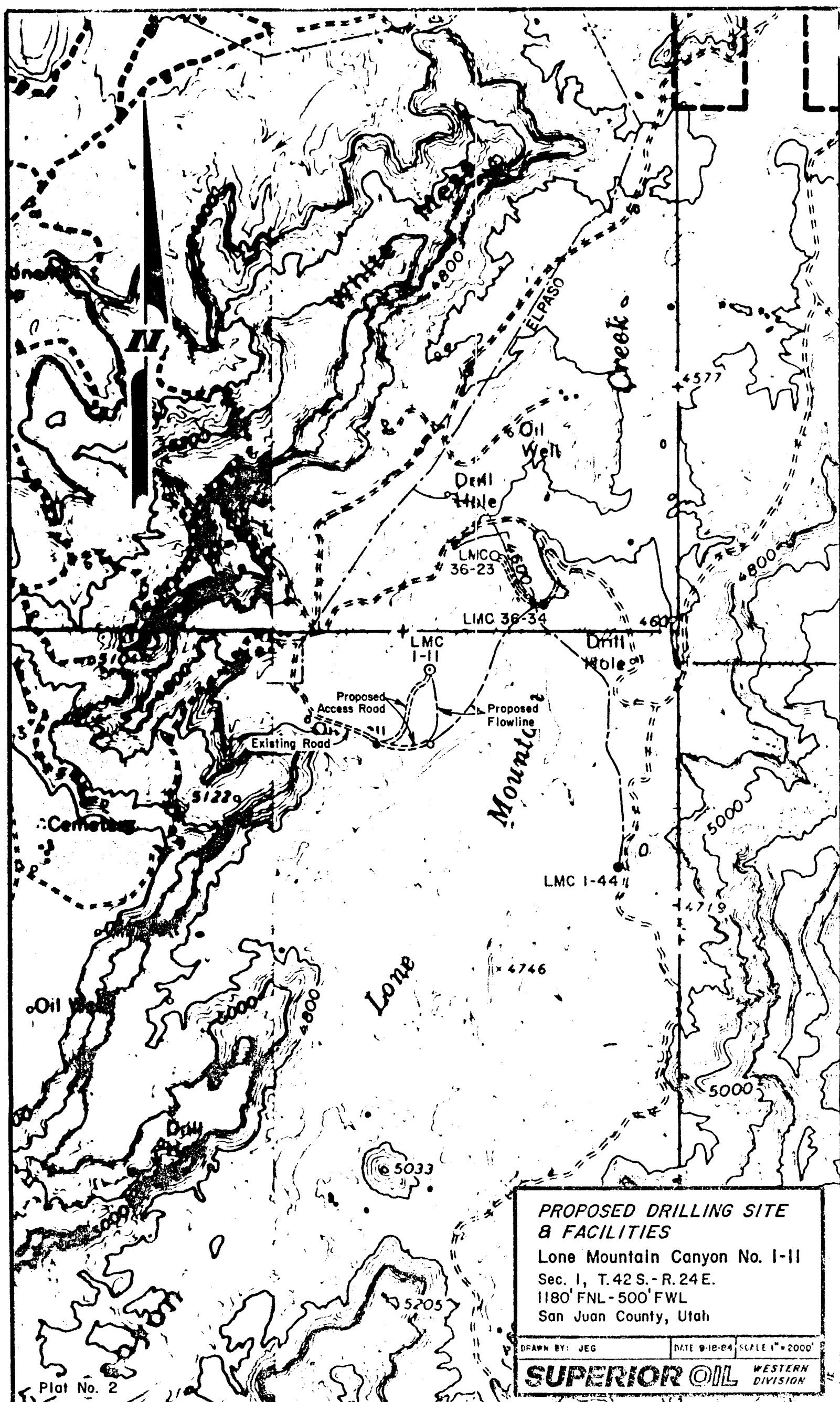
THOMAS Engineering Inc.

215 N. Linden  
Cortez, Colorado  
565-4496

Plat No. 5

Utah Reg. No. 4346





**PROPOSED DRILLING SITE  
& FACILITIES**

Lone Mountain Canyon No. 1-II  
Sec. 1, T.42 S.-R.24 E.  
1180' FNL-500' FWL  
San Juan County, Utah

DRAWN BY: JEG

DATE 9-18-84

SCALE 1" = 2000'

**SUPERIOR OIL**

WESTERN  
DIVISION

# SUPPLEMENT TO FORM 3160-3

WELL: LONE MOUNTAIN CANYON #1-11

ELEVATION: 4712' Ungraded G. L.

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:	<u>Formation</u>	<u>Top</u>
	Chinle	1376'
	DeChelly	2411'
	Organ Rock	2676'
	Hermosa	4381'
	Ismay	5230'
	Lower Ismay	5348'
	Gothic Shale	5383'
	Desert Creek	5401'
	Chimney Rock Shale	5556'
	TD	5610'

WATER BEARING FORMATION: Fresh water is expected to be encountered intermittently from 30' to 1376'.

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered in the Ismay and Desert Creek from 5230' to 5556'.

MUD PROGRAM:

Surface to 120' - spud mud.

120' to 1430' - fresh water.

1430' to 2300' - fresh water/gel/polymer.

2300' to 5130' - lignosulfonate mud system.

5130' to TD - lignosulfonate mud system. Water loss controlled to 15 cc or less and weighted with barite as necessary.

CASING PROGRAM:	<u>Depth</u>	<u>Size</u>	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
Conductor	0-120'	17-1/2"	13-3/8"	54.5#	K-55	ST&C
Surface	0-1430'	12-1/4"	9-5/8"	36#	K-55	ST&C
Production	0-5610'	8-3/4"	7"	23#	K-55	ST&C

ALL CASING WILL BE NEW.

(2)

CEMENT PROGRAM: Conductor - cement to surface w/ 150 sx (177 ft<sup>3</sup>)  
Class 'B' + 2% CaCl.

Surface - cement to surface w/ 500 sx (920 ft<sup>3</sup>)  
Lite + 10# sk Gilsonite + .4% LoDense +  
5#/sk LCM & 150 sx (177 ft<sup>3</sup>) Class  
'B' + 2% CaCl.

Production - 500 sx (590 ft<sup>3</sup>) Class 'B' + 1.7%  
D-29 (antimigration additive) + .3%  
R-5 (retarder). Est. TOC: 4500'.

PRESSURE CONTROLS: Blowout preventer equipment will be 10" Series  
900 (3000 psig working pressure) with blind rams  
and drill pipe rams hydraulically and manually  
controlled. The BOP's will be tested to 1500 psig  
and actuated daily to insure proper functioning.  
The schematic of the pressure control equipment can  
be seen on the attached diagram.

LOGGING PROGRAM: DIL/SFL: TD to 1430' (GR to surface).

CNL/FDC: TD to 5200'.

BHC-Sonic: TD to 1430'.

HIGH PRESSURE AND/OR H<sub>2</sub>S GAS: High pressure gas or gas containing detectable  
H<sub>2</sub>S are not anticipated while drilling  
this well.

DRILL STEM TESTS: One - Desert Creek (5401'-5510').

CORING: None.

ANTICIPATED STARTING DATE: October 1, 1984.

# **SUPERIOR OIL**

September 20, 1984

Mr. Matt N. Millenbach  
Area Manager  
U. S. Department of The Interior  
Bureau of Land Management  
Caller Service 4104  
Farmington, New Mexico 87499

Re: Surface Use Development Plan  
Proposed Well Lone Mountain Canyon 1-11  
1180' FNL, 500' FWL  
NWNW Section 1, T42S, R24E  
San Juan County, Utah

Sir:

We submit this Surface Use Development Plan with APD, Form 3160-3, for the above referenced well and the plan is as follows:

1. To reach the location start in Montezuma Creek, Utah and go .7 mile south and across the San Juan River on paved county road 409 to the junction of County Road 409 and County Road 406; then go east 1.2 miles on County Road 406 to the junction of County Road 406 and County Road 457; then turn left and go 5.9 miles to a junction before Lone Mountain Canyon Wash; then turn right (south) and go 4 miles to the start of the access road from the access road to the location of Lone Mountain Canyon 1-12 of Superior Oil.
2. An access road of approximately 1000' will be constructed from the existing access to the Lone Mountain Canyon 1-12.
3. Superior does not have a current and complete inventory of all existing wells within a one-mile radius of the proposed well, but attached is Plat #3 showing existing wells in the area as our information shows it.
4. Superior proposes to construct production facilities on Lone Mountain Canyon 1-12 location and a production flowline, approximately 1050' in length, will be laid from this well to the above production facility if the well is productive. An electrical powerline will be constructed adjacent and parallel to the pipeline.
5. Location and type of water supply will be from Superior's McElmo Creek Unit fresh water supply wells near the San Juan River (SW-1/2 Sec. 17, T41S, R25E SLM). Water will be trucked to the location over existing roads and access road to be built.

## **SUPERIOR OIL**

6. All construction material necessary to build the drilling pad will be obtained from the location and access road. Graveling of the access and/or existing road is not deemed necessary for the drilling of this well. The drainage, if any, will be diverted around the east side of the location.
7. Methods of handling waste disposals are as follows:
  - A. A trash or burn pit, an earthen pit 6 to 8 feet deep with steep sides and mesh wire fencing, will be constructed in the northwest corner of the reserve mud pits.
  - B. The reserve mud pits will be located on east side of the location for the drilling mud, cuttings, and fluids. The reserve pit will be fenced on three sides away from the pad while drilling and the fourth side will be fenced as soon as the drilling rig moves out. When drilling operations are complete, the reserve pit will be allowed to dry naturally and then be backfilled, leveled and contoured to the original landscape as much as possible.
  - C. Chemical toilets, meeting OSHA approval, will be provided and maintained during drilling operations.
8. The support facilities consisting of two small mobile homes for use by supervisory personnel of Superior and the drilling contractor will be parked on the west edge of location as shown on the attached Plat #4 during drilling operations. No additional or other ancillary facilities is anticipated at this time.
9. A plat of the proposed drill pad and its location relative to topographic features is attached (see Plat #2). Diagrams showing cross section of cuts and fills, site organization, and drilling rig orientation are contained in Plat #4 and #6.
10. Upon completion of the drilling operations and if the well is deemed dry, then the location and the access road will be cleaned and re-stored to the original topographical contours as much as possible and reseeded in accordance with the requirements and stipulations of the Bureau of Indian Affairs.
11. The land at the location and all the land crossed by the access road to be constructed is Navajo Tribal Lands and managed by the Bureau of Indian Affairs.

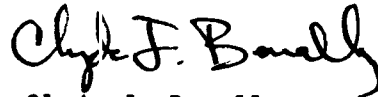


## **SUPERIOR OIL**

12. Any additional questions, requests and/or unanticipated developments will be channeled through the appropriate individuals of the BLM & BIA. Superior Oil has not selected a drilling contractor at this time. All dirt contractors bidding for the location construction were in attendance during the pre-drill site inspection.
13. As for the contacts with Superior Oil, the following are company and contract representatives:
  - Permitting - C. J. Benally
  - Construction - C. D. Likes
  - Drilling - J. E. Gagneaux
  - Mailing Address - P. O. Drawer 'G',  
Cortez, Colorado 81321
  - Telephone - 303-565-3733 (24 hrs)
  - Dirt Contractor - not yet determined.
  - Drilling Contractor - not yet determined.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed here will be performed by Superior Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provision of 18 U. S. C. 1001 for the filing of a false statement.

SUPERIOR OIL COMPANY



Clyde J. Benally  
Environmental Coordinator

CJB/1h

SUPERVISOR, OIL AND GAS OPERATIONS:

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of oil and gas lease

DISTRICT LAND OFFICE: P.O. Box 146, Window Rock, Arizona 86515  
SERIAL NO.: NOO-C-14-20-5119

and hereby designates

NAME: Superior Oil Company  
ADDRESS: 1860 Lincoln Street, 800 Lincoln Tower Bldg.  
Denver, Colorado 80295

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 42 South - Range 24 East, SIM  
Section 1: All  
San Juan County, Utah


It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

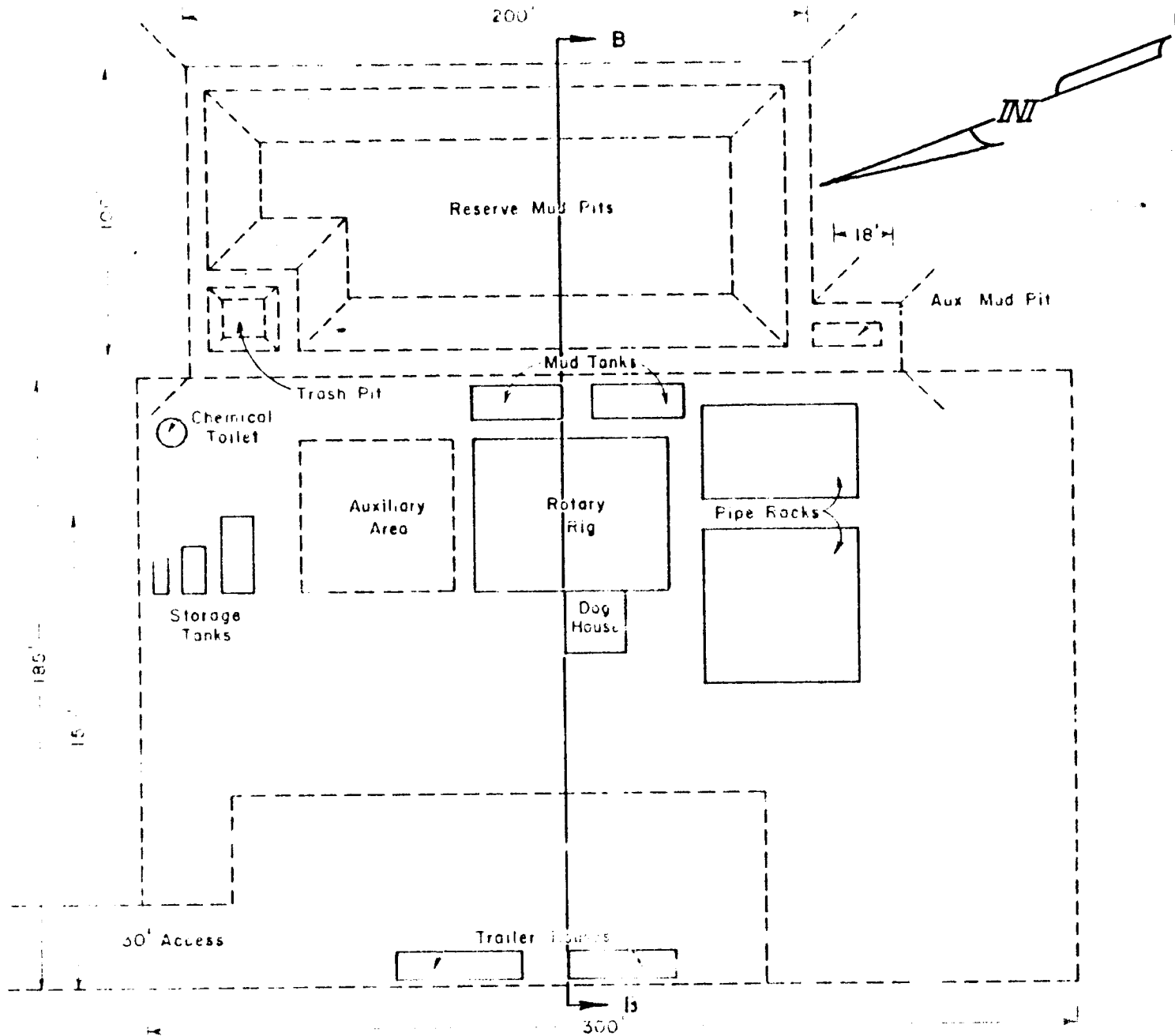
The lessee agrees promptly to notify the oil and gas supervisor of any change in the designated operator.

12/21/82

(Date)

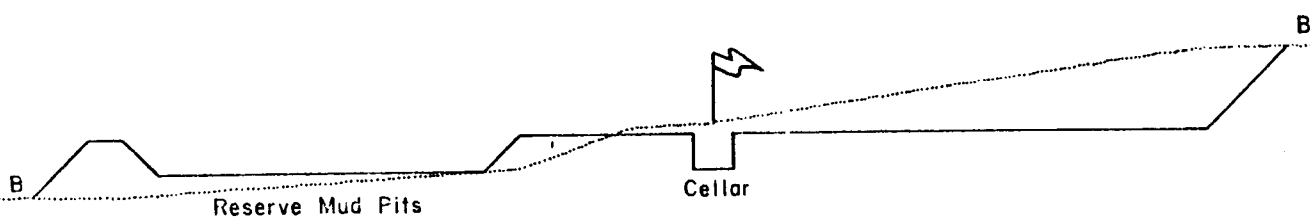
  
(Signature of lessee)  
Raymond T. Duncan  
1777 South Harrison, Penthouse One  
Denver, Colorado 80210  
(Address)

DL: 44-2-585-01



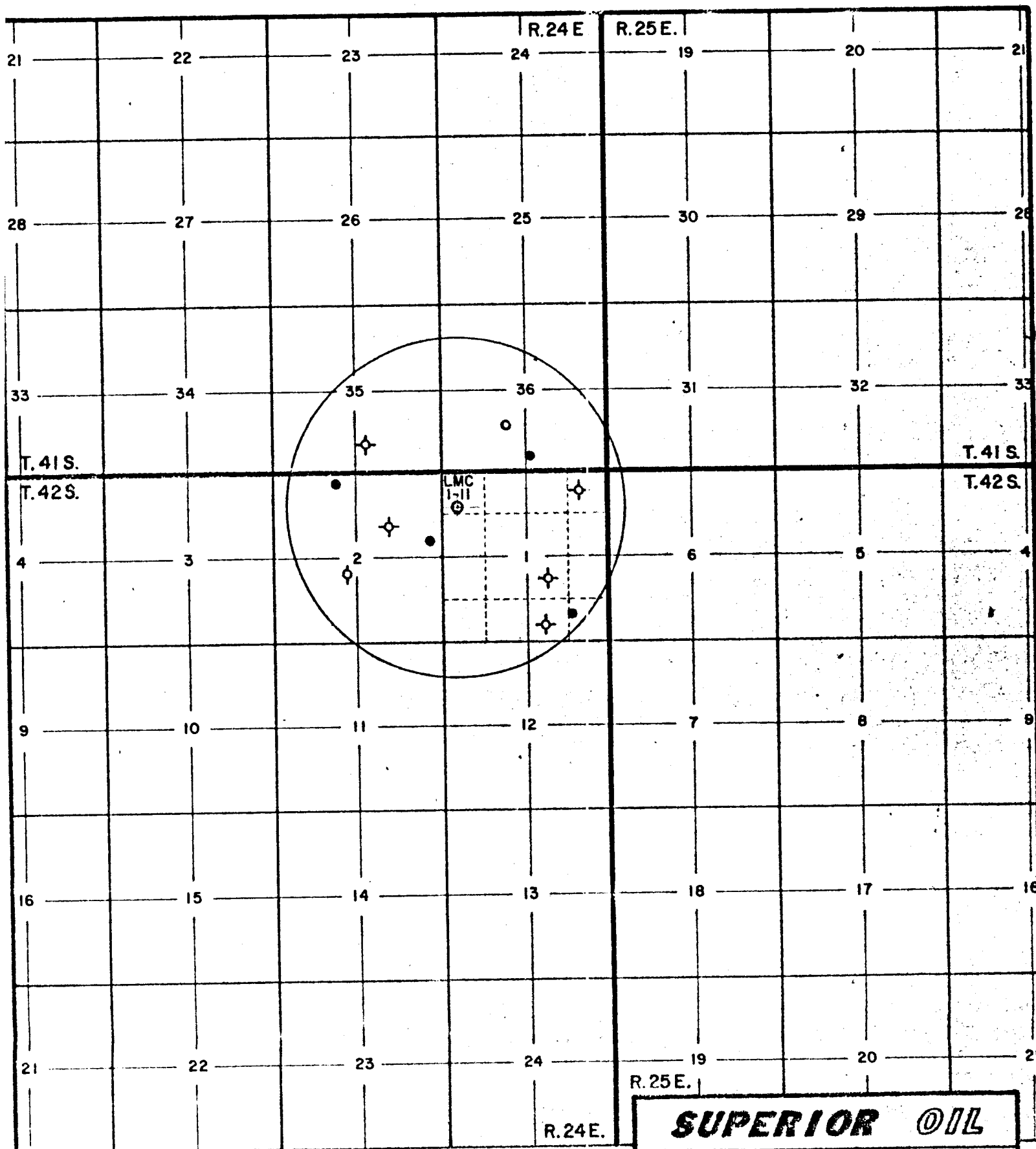
The Drilling Pad will be graded and compacted and composed of native materials.

PROPOSED WELL SITE  
L.M.C. No. 1-II  
Original Elev. 4712.4'



Original Contour  
Reference Point  
Graded Proposal

THE SUPERIOR OIL CO.  
CORTI, LASTER, DICKSON  
ENGINEERING DEPARTMENT  
RIG LAYOUT & DRILL  
PAD CROSS SECTION  
Lone Mountain Canyon No. 1-II  
Sec. 1, T.42 S. - R.24 E.  
San Juan County, Utah  
9-19-84  
1" = 50'

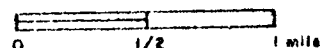


- Proposed Well
- Producing Well
- ☼ Gas Well
- ⊕ Water Injection Well
- ⊙ Temporarily Abandoned
- ⊕ Plugged and Abandoned

Sheet No. 3

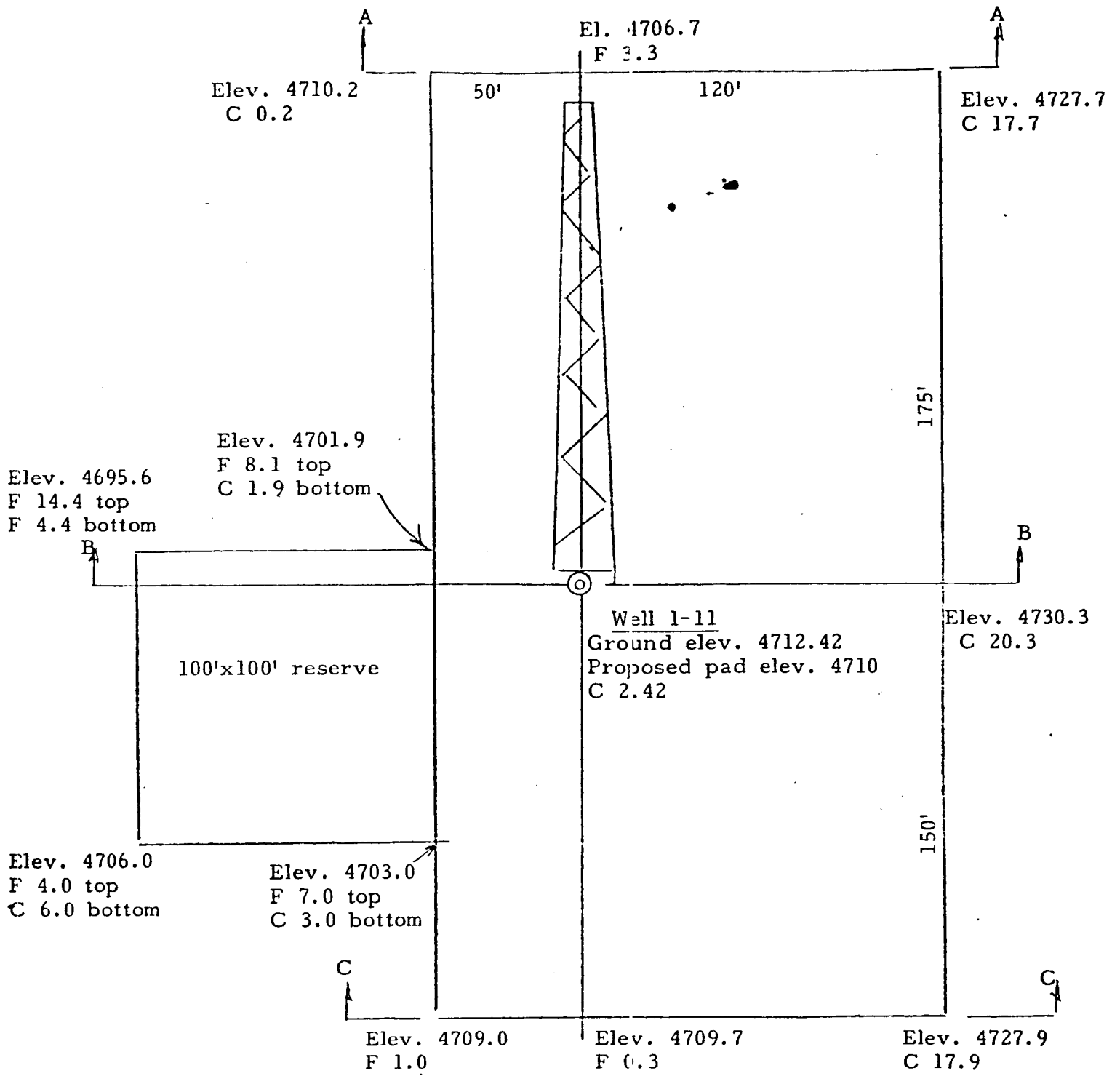
**SUPERIOR OIL**

**EXISTING WELLS  
SURROUNDING  
PROPOSED WELL**



By: JEG

Date: 9-19-84

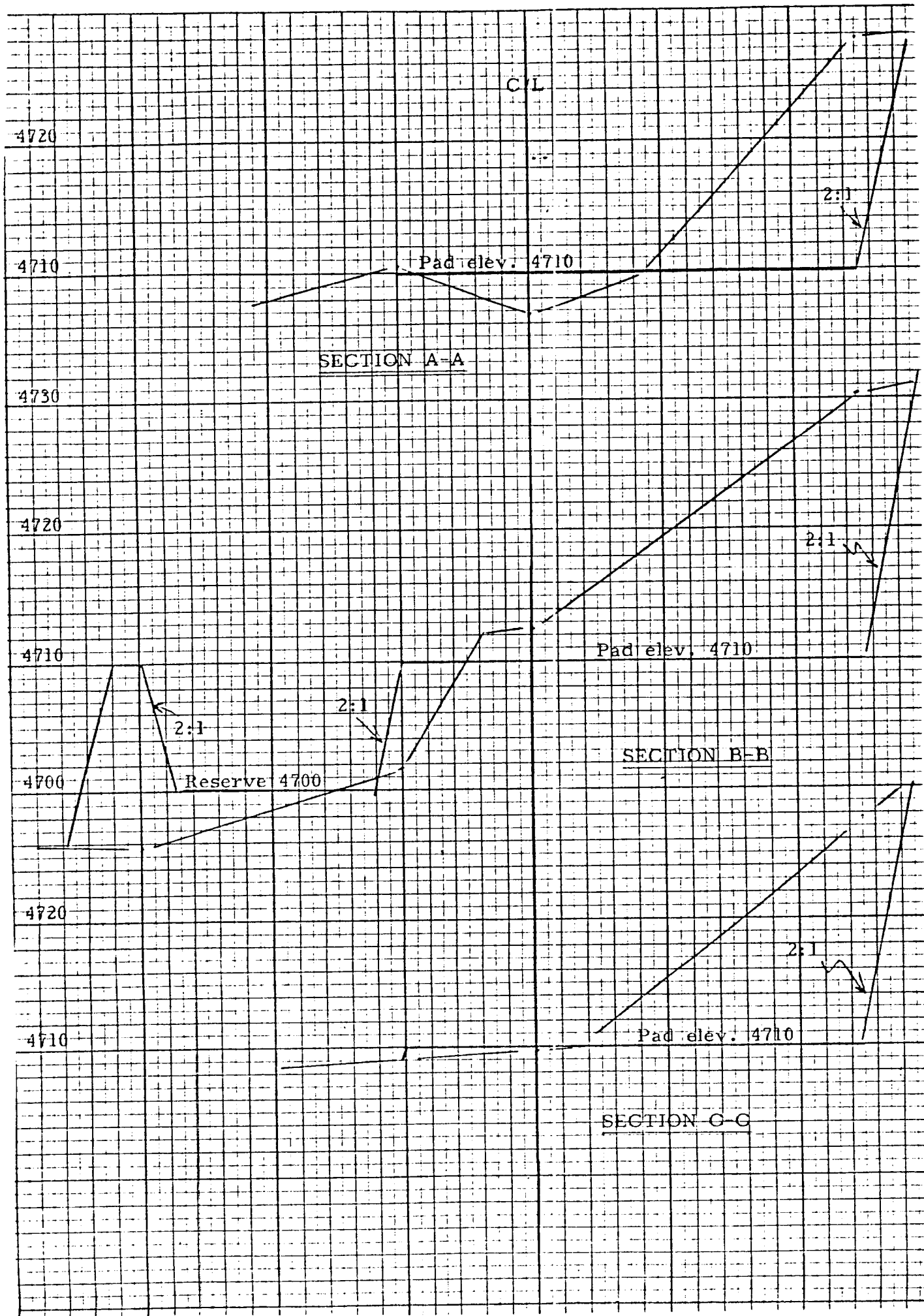


Scale: 1" = 50'



**THOMAS** Engineering Inc.

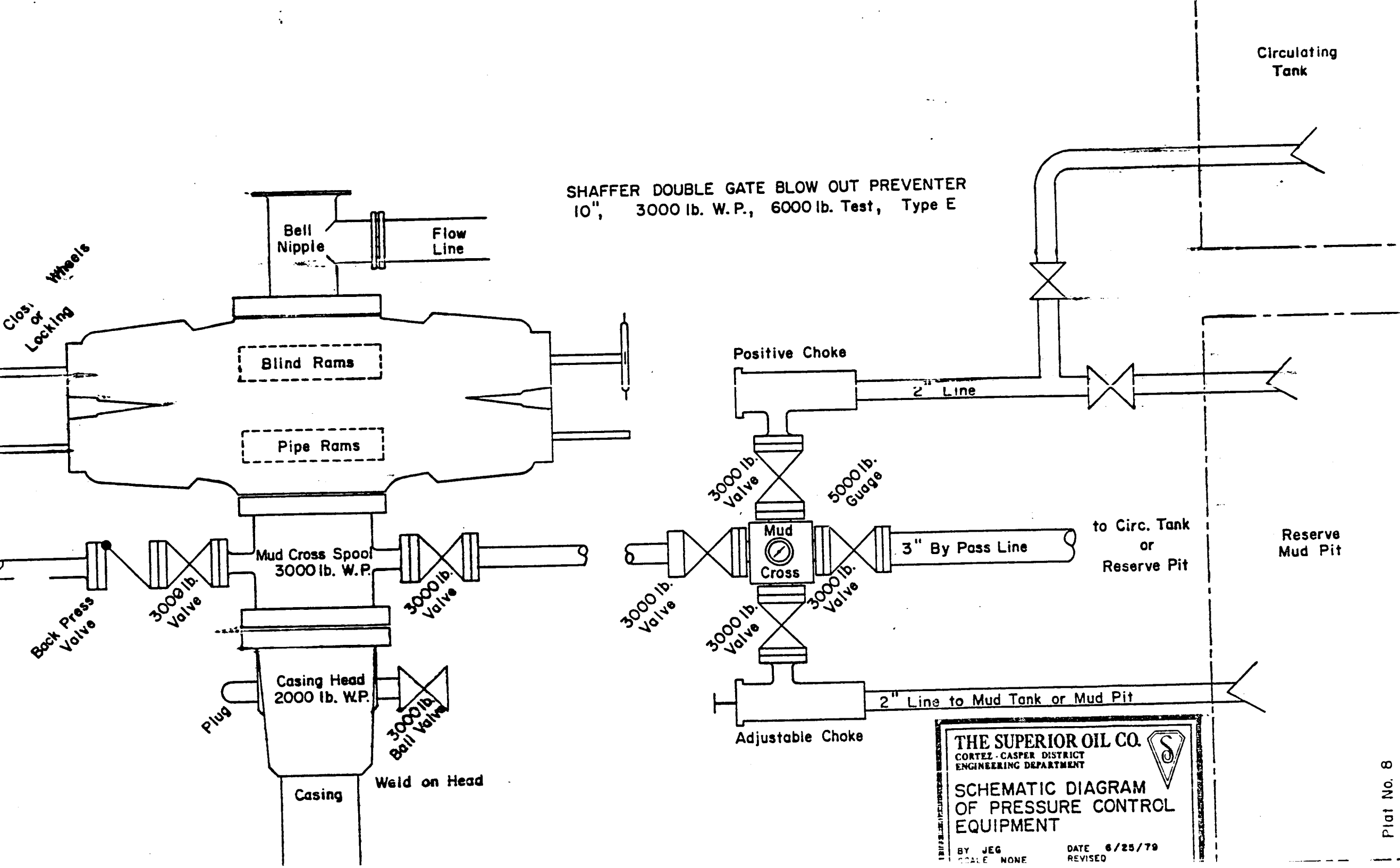
215 N. Linden  
Cortez, Colorado  
565-4496



Horizontal scale: 1" = 50'  
Vertical scale: 1" = 10'

**THOMAS** Engineering Inc.

25 N. Linden  
Cortez, Colorado  
565-4496



**THE SUPERIOR OIL CO.**

CORTEZ-CASPER DISTRICT  
ENGINEERING DEPARTMENT

**SCHEMATIC DIAGRAM  
OF PRESSURE CONTROL  
EQUIPMENT**

BY JEG  
SCALE NONE

DATE 6/25/79  
REVISED

OPERATOR Superior Oil Co. DATE 10-5-84  
WELL NAME Hone Mtn. Canyon #1-11  
SEC NW NW 1 T 42S R 24E COUNTY San Juan

43-037-31083  
API NUMBER

Indian  
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

No other wells within 1000'  
Water & - #84-09-18  
D.O. from Raymond T. Duncan

APPROVAL LETTER:

SPACING: ☐ A-3 \_\_\_\_\_ UNIT ☐ c-3-a \_\_\_\_\_ CAUSE NO. & DATE  
☐ c-3-b ☒ c-3-c

SPECIAL LANGUAGE:

~~Exception~~  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



☒ RECONCILE WELL NAME AND LOCATION ON APE AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER \_\_\_\_\_

☐ UNIT \_\_\_\_\_

☒ c-3-b

☐ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☐ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

**SUPERIOR OIL**

October 3, 1984

**RECEIVED**

**OCT 09 1984**

**DIVISION OF OIL  
GAS & MINING**

Mr. Ron Firth  
Division of Oil, Gas, and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Re: Proposed Lone Mountain Canyon #1-11  
1180' FNL; 500' FWL  
Section 1, T42S, R24E  
San Juan County, Utah

Dear Mr. Firth:

The Application for Permit to Drill for the above-referenced well is staked on an unorthodox location in accordance with Rule C-3(c), General Rules and Regulations and Practice and Procedure. An exemption is requested due to our geological interpretation of the extent of the feature we are pursuing. Our past experience in this area supports the idea that these prolific algal mounds are small and discrete.

We would appreciate your cooperation on this matter.

Sincerely,



Jeanette M. Bauman  
Production Geologist

JMB/jme



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

October 10, 1984

Superior Oil Company  
P. O. Drawer G  
Cortez, Colorado 81321

Gentlemen:

Re: Well No. Lone Mountain Canyon #1-11 - NW NW Sec. 1, T. 42S, R. 24E  
1180' FNL, 500' FWL - San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

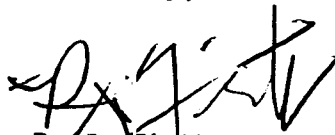
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2  
Superior Oil Company  
Well No. Lone Mountain Canyon #1-11  
October 10, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31083.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. J. Firth', with a stylized flourish at the end.

R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
Bureau of Indian Affairs

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions  
verse side)

TE  
re

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1180' FNL, 500' FWL of SEC. 1

14. PERMIT NO.

43-037-31083

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded GL: 4712'

5. LEASE DESIGNATION AND SERIAL NO.  
N00-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

LONE MOUNTAIN CANYON

9. WELL NO.

#1-11

10. FIELD AND POOL, OR WILDCAT

LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

SEC. 1, T42S, R24E

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

XX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Superior Oil proposes to directionally drill the subject well to a bottom  
hole location of 1180' FNL & 250' FWL of Section 1, T42S, R24E.

18. I hereby certify that the foregoing is true and correct

SIGNED

*T. Greg Merriam*  
Greg Merriam

TITLE

Petroleum Engineer

DATE 12-18-84

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE

OF UTAH DIVISION OF  
OIL, GAS, AND MINING

\*See Instructions on Reverse Side

E.Y.

*John R. Dupa*



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 9, 1985

Superior Oil Company  
P.O. Drawer "G"  
Cortez, Colorado 81321

Gentlemen:

Re: Well No. Lone Mountain Canyon # 1-11, Sec. 1, T. 42S, R. 24E,  
San Juan County, Utah.

We have received your recent Sundry Notice proposing to directionally drill the above referenced well. The designated bottom hole location of the well is within 500' of the adjacent lease and our records indicate that Superior is not the operator of the offsetting lease.

Therefore approval to directionally drill is given on the condition that Superior contact the offsetting lease operator and obtain written consent to drill to the bottomhole location specified in the Sundry Notice. Such written consent must be filed with this office prior to commencing operations. Please be aware that if the well is drilled and completed for production, the offsetting lease operator may obtain approval to drill an offset to the Lone Mountain Canyon # 1-11 in order to retain their correlative rights to the mineral resource.

Thank you for your prompt attention to this matter and please contact this office if additional information is required.

Sincerely,

  
John R. Baza  
Petroleum Engineer

cc: R.J. Firth  
Well File  
9684T-117



STATE OF UTAH  
NATURAL RESOURCES  
Water Rights

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Doe C. Hanson, State Engineer

453 South Carbon Avenue • P.O. Box 718 • Price, UT 84501 • 801-637-1303

RECEIVED

031811

APR 12 1985

April 10, 1985

DIVISION OF OIL  
GAS & MINING

The Superior Oil Company  
Attn: Bill Edwards  
P.O. Drawer G  
Cortez, Colorado 81321

Re: Temporary Change Application 85-09-4

Dear Mr. Edwards:

The above referenced Temporary Change Application has been approved. A copy is herewith enclosed for your records and information.

If you have any questions, please feel free to contact me.

Sincerely,

Mark P. Page  
Area Engineer  
for Robert L. Morgan, P.E.  
State Engineer

Enclosure

RLM/MPP/mjk

RECEIVED

APR 12 1985

Form 111-B-61 2M

APPLICATION NO. 85-09-4  
DISTRIBUTION SYSTEM.

DIVISION OF OIL  
GAS & MINING

Application For Temporary Change of Point of Diversion,  
Place or Purpose of Use  
STATE OF UTAH

RECEIVED

(To Be Filed in Duplicate)

APR 5 1985

WATER RIGHTS

CORTEZ, COLORADO MARCH 29 1985  
Place Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use  
(Strike out written matter not needed)  
of water, the right to the use of which was acquired by 29718(a-3777), 09-229, Cert. No. 8446  
(Give No. of application, title and date of Decree and Award No.)  
to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of  
facts, submitted in accordance with the requirements of the Laws of Utah.

1. The owner of right or application is THE SUPERIOR OIL COMPANY
2. The name of the person making this application is The Superior Oil Co
3. The post office address of the applicant is P. O. Drawer G, Cortez, Co. 81321

PAST USE OF WATER

4. The flow of water which has been used in second feet is 6.45
5. The quantity of water which has been used in acre feet is
6. The water has been used each year from January 1 to December 31 incl.  
(Month) (Day) (Month) (Day)
7. The water has been stored each year from to incl.  
(Month) (Day) (Month) (Day)
8. The direct source of supply is Underground water (22 wells) San Juan County.
9. The water has been diverted into ditch at a point located see attached sheet  
canal
10. The water involved has been used for the following purpose: secondary oil recovery

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

11. The flow of water to be changed in cubic feet per second is 4.0
12. The quantity of water to be changed in acre-feet is
13. The water will be diverted into the ditch at a point located see attached  
canal sheet from the collection point of the wells listed on the attachment.
14. The change will be made from April 5, 1985 to April 5, 1986  
(Period must not exceed one year)
15. The reasons for the change are source of water for exploratory drilling of  
three (3) wells
16. The water involved herein has heretofore been temporarily changed 0 years prior to this application.

17. The water involved is to be used for the following purpose: exploratory drilling fluid for  
3 wells to be drilled at the following locations: 1180' FNL, 500' FWL, R24E, SLM  
Sec. 1, 2230' FNL, 530' FWL, Sect. 1, 2000' FNL, 650' FWL, Sec. 1, T24S, San Juan Co  
Utah

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

FNL = from north line; FWL = from west line, etc.  
Well LMC 1-11: S. 1180 ft. & E. 500 ft. from NW Cor. Sec. 1, T42S, R24E, SLB&M. 43-037-31083  
Well LMC 1-12: S. 2000 ft. & E. 650 ft. from NW Cor. Sec. 1, T42S, R24E, SLB&M. 43-037-3105  
Well LMC 1-13: S. 2230 ft. & E. 530 ft. from NW Cor. Sec. 1, T42S, R24E, SLB&M. no well #  
Aneth Quad

A filing fee in the sum of \$5.00 is submitted herewith. I agree to pay an additional fee for either investigating or ad-  
vertising this change, or both, upon the request of the State Engineer.

*[Signature]*  
Signature of Applicant

ONE  
COUNTY  
CANYON



# RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$5.00. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:

State Engineer  
State Capitol Building  
Salt Lake City, Utah

## STATE ENGINEER'S ENDORSEMENTS

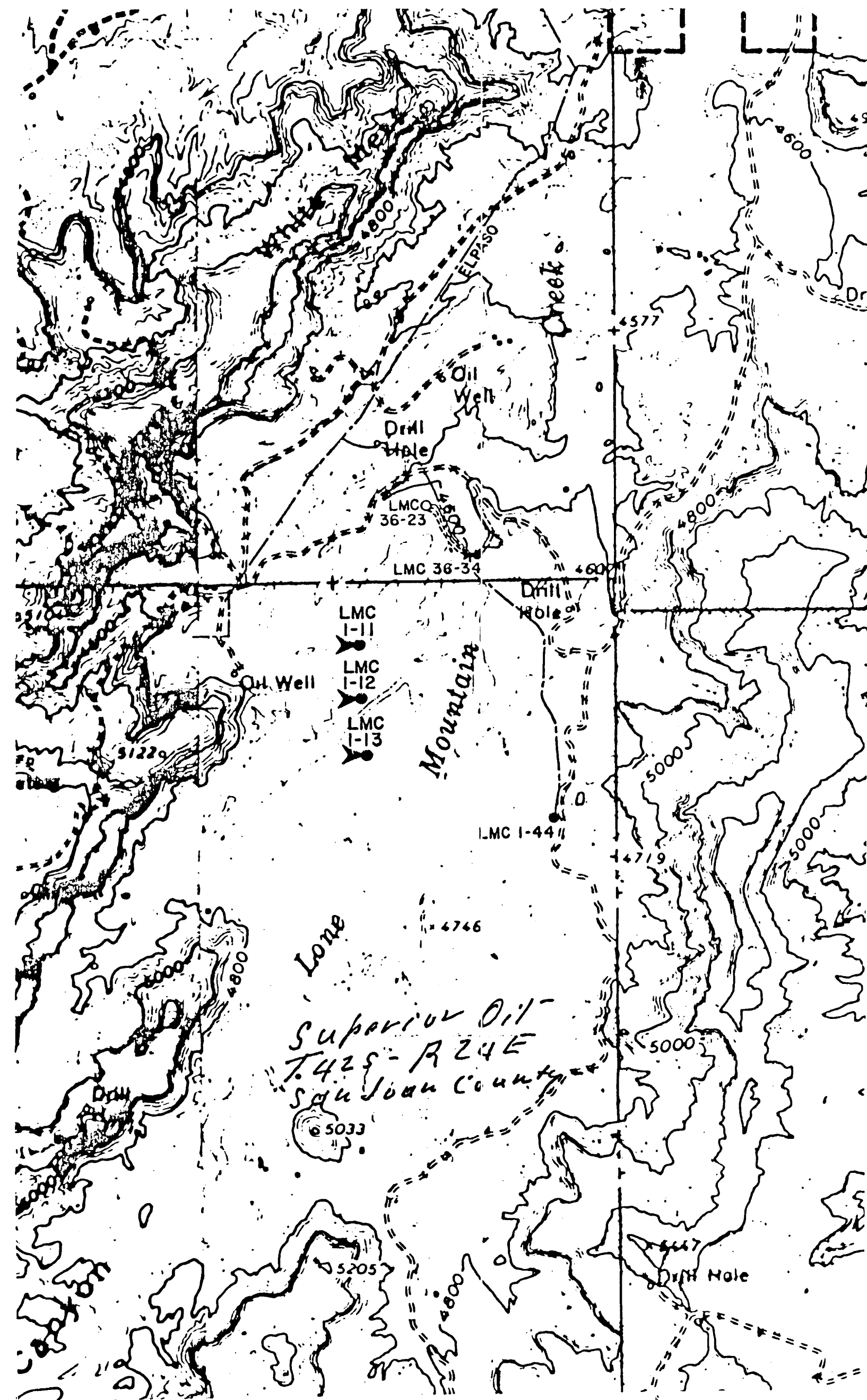
(Not to be filled in by applicant)

- Change Application No. .... (River System)
1. N.A. ..... Application received by Water Commissioner ..... (Name of Commissioner)  
Recommendation of Commissioner .....
2. APRIL 5, 1985 ..... Application received over counter in State Engineer's Office by JP  
by mail
3. .... Fee for filing application, \$5.00, received by ..... ; Rec. No. ....
4. .... Application returned, with letter, to ..... for correction.
5. .... Corrected application resubmitted over counter to State Engineer's Office.  
by mail
6. .... Fee for investigation requested \$.....
7. .... Fee for investigation \$....., received by ..... : Rec. No. ....
8. .... Investigation made by ..... ; Recommendations: .....
9. .... Fee for giving notice requested \$.....
10. .... Fee for giving notice \$....., received by ..... : Rec. No. ....
11. .... Application approved for advertising by publication by .....  
mail
12. .... Notice published in.....
13. .... Notice of pending change application mailed to interested parties by ..... as follows:  
.....  
.....
14. .... Change application protested by ..... (Date Received and Name)
15. .... Hearing set for ..... at .....
16. 4-9-85 ..... Application recommended for reject on by JP  
approval
17. 4-9-85 ..... Change Application rejected and returned to Applicant  
approved

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. ....
2. ....
3. ....

Mark P. Rose Chas. Engvall  
State Engineer



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRI  
(Other instructio  
verse side)

ATE\*  
o re

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

N00-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

LONE MOUNTAIN CANYON

9. WELL NO.

#1-11

10. FIELD AND POOL, OR WILDCAT

LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLE. AND  
SURVEY OR AREA

SE 1, T42S, R24E, SLM

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1.

OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

THE SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. DRAWER G, CORTEZ, CO. 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1180' FNL, 500 FWL Sect. 1

14. PERMIT NO.

43-037-31083

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded GL:4712'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☒

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐

FRACTURE TREATMENT

SEEDING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

☐  
☐  
☐

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Superior Oil proposes to run D.V. tool on the 7" long string at 2900' and cement from TD (5610') to 4200' with 263 ft.<sup>3</sup> of cement and cement with 184 ft<sup>3</sup> of cement through D.V. tool to 2200'.

RECEIVED

MAY 10 1985

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 5/16/85

BY: John R. Burg

DIVISION OF OIL  
GAS & MINING

Federal approval of this action  
is required before commencing  
operations.

18. I hereby certify that the foregoing is true and correct

SIGNED

W. H. Edwards

TITLE Regulatory

DATE 5/6/85

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side

BEFORE THE BOARD OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
IN AND FOR THE STATE OF UTAH

---

IN THE MATTER OF THE PETITION	:	
OF MOBIL OIL CORPORATION, AS	:	
AGENT FOR THE SUPERIOR OIL	:	
COMPANY, and RAYMOND T. DUNCAN,	:	FINDINGS OF FACT,
VINCENT J. DUNCAN and J. WALTER	:	CONCLUSIONS OF LAW AND
DUNCAN, JR., FOR AN ORDER	:	ORDER
APPROVING THE LOCATION OF	:	
PETITIONERS' LONE MOUNTAIN	:	Docket No. 85-013
CANYON NO. 1-11 WELL AS AN	:	Cause No. 152-5
EXCEPTION TO THE CURRENTLY	:	
APPROVED LOCATION IN THE	:	
NW $\frac{1}{4}$ NW $\frac{1}{4}$ OF SECTION 1, TOWNSHIP	:	
42 SOUTH, RANGE 24 EAST,	:	
S.L.M., SAN JUAN COUNTY, UTAH	:	

---

The Petition of Mobil Oil Corporation, as agent for the Superior Oil Company, and Raymond T. Duncan, Vincent J. Duncan, and J. Walter Duncan, Jr., for an order authorizing Petitioners to slant-drill their proposed Lone Mountain Canyon No. 1-11 well to a bottomhole location 1180 feet from the North line and 250 feet from the West line of Section 1, Township 42 South, Range 24 East, S.L.M., San Juan County, Utah, as an exception to the location currently authorized, came on for consideration and determination by the Board of Oil, Gas & Mining ("Board"), Department of Natural Resources and Energy, in and for the State of Utah, on Thursday, March 28, 1985, in the Board Room of the Division of Oil, Gas and Mining ("Division"), 355 West North Temple, No. 3 Triad Center, Suite 301, Salt Lake City, Utah.

The following Board members, constituting a quorum, were present and participated in the decision embodied herein:

James W. Carter, Acting Chairman  
Charles R. Hendersen  
Richard B. Larsen  
E. Steele McIntyre  
Gregory P. Williams, Chairman, having recused himself, did not participate.

Mark C. Moench, Assistant Attorney General, was present on behalf of the Board.

Members of the staff of the Division present at and participating in the hearing included:

Dr. Dianne R. Nielson, Director  
Ronald J. Firth, Associate Director  
John R. Baza, Petroleum Engineer

Barbara W. Roberts, Assistant Attorney General, was present on behalf of the Division.

Michael M. Later, Esq. appeared on behalf of Mobil Oil Corporation et al., (hereinafter referred to collectively as "Petitioners").

Jay D. Gurmankin, Esq., appeared on behalf of Chuska Energy Company ("Respondent").

Testimony was received and exhibits were introduced by the following witnesses: Jeanette M. Bauman, Mobil Staff Production Geologist, Lowell R. Martinson, Mobil Senior Staff, Petroleum Engineer, Henry Haven, Chuska Energy Co. Production Geologist, John C. Alexander, Chuska Energy Co. Vice-President of Operations. Each of the above witnesses was recognized by the

Board as an expert in their respective field with regard to this matter.

After hearing the evidence introduced in support of said Petition, and having reviewed the responses offered in support and in opposition to said Petition, and good cause appearing therefor, the Board makes the following findings of fact, conclusions of law and order:

FINDINGS OF FACT

1. Due and regular notice of the date, place and purpose of the hearing was given to all interested parties, as required by law and the rules and regulations of the Board.

2. Petitioners' own oil and gas leasehold interests in Section 1, Township 42 South, Range 24 East, S.L.M., San Juan County, Utah.

3. Respondent Chuska Energy Company is the owner of certain oil and gas leasehold interests in Section 2, Township 42 South, Range 24 East, S.L.M., San Juan County, Utah, adjacent to the west boundary of Petitioners' interests.

4. Respondent Chuska Energy Company currently owns and operates the Navajo Tribal No. 41-2 and Navajo Tribal No. 42-2 production wells on its leasehold interests in Section 2, Township 42 South, Range 24 East, S.L.M., San Juan County, Utah.

5. The interests of Petitioners and Respondent in Sections 1 and 2 of Township 42 South, Range 24 East, S.L.M., San

Juan County, Utah, are underlain by common producing reservoirs in the Ismay and/or Desert Creek Formations.

6. Petitioners cannot feasibly drill into and develop the producing reservoirs underlying their interests in Section 1, Township 42 South, Range 24 East, S.L.M. at the currently approved well location in Section 1.

7. Petitioners' interests in the oil and gas reservoirs underlying Section 1, Township 42 South, Range 24 East, S.L.M. will be drained by the Navajo Tribal No. 41-2 and Navajo Tribal No. 42-2 wells located in Section 2, Township 42 South, Range 24 East, S.L.M., unless Petitioners are granted an exception location to drill their proposed Lone Mountain Canyon No. 1-11 well, beginning from a surface location 1180 feet from the North line and 500 feet from the West line of Section 1, to a bottomhole location in the Ismay and/or Desert Creek Formation 1180 feet from the North line and 250 feet from the West line of Section 1, Township 42 South, Range 24 East, S.L.M.

8. If Petitioners are granted an exception location to drill their proposed Lone Mountain Canyon No. 1-11 well, it is likely that Petitioners' well will drain oil and gas from the portion of the reservoirs underlying Respondent's interests in Section 2, Township 42 South, Range 24 East, S.L.M.

### CONCLUSIONS OF LAW

1. Due and legally sufficient notice of time, place and purpose of this hearing has been afforded to all interested parties in all respects as required by law.

2. The Board has jurisdiction over the matter embraced herein and over all interested parties, and has jurisdiction to make and promulgate the order hereinafter set forth, and pursuant to §40-6-13 Utah Code Annotated (1953, as amended) has jurisdiction to make an order to restrict production.

3. In order to provide for the orderly and uniform development of the oil and gas reservoirs underlying the above-described lands, to prevent waste, to protect correlative rights, and for the greatest economic recovery of oil, gas and associated hydrocarbons underlying the above-described lands, an order should be issued granting Petitioners' request allowing the proposed Lone Mountain Canyon No. 1-11 well to be drilled beginning from a surface location 1180 feet from the North line and 500 feet from the West line, to a bottom hole location in the Ismay and/or Desert Creek Formations, 1180 feet from the North line and 250 feet from the West line of Section 1, Township 42 South, Range 24 East, S.L.M., San Juan County, Utah.

### ORDER

IT IS HEREBY ORDERED, that:

1. Petitioners are authorized to slant-drill their



proposed Lone Mountain Canyon No. 1-11 well beginning from a surface location 1180 feet from the North line and 500 feet from the West line of Section 1, to a bottom hole location in the Ismay and/or Desert Creek Formation 1130 feet from the North line and 250 feet from the West line of Section 1, Township 42 South, Range 24 East, S.L.M., San Juan County, Utah.

2. Petitioners shall perform a directional survey on the proposed Lone Mountain Canyon 1-11 well to establish the east-west bottom hole location of said well, that Petitioners shall furnish copies of this directional survey to the Staff of the Division of Oil, Gas & Mining and to Respondent Chuska Energy Company; and that in the event that the bottom hole location of said well is located at a point closer than 250 feet from the west line of Section 1, Township 42 South, Range 24 East, S.L.M., San Juan County, Utah, Petitioners shall either plug back the well to a point not less than 250 feet from the West line of Section 1, or Petitioners shall not perforate into any producing zone at any point closer than 250 feet from the West line of Section 1, Township 42 South, Range 24 East, S.L.M.

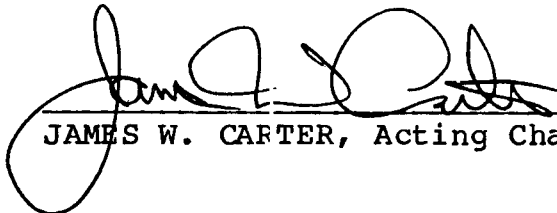
3. Petitioners shall furnish Respondent Chuska Energy with all electric logs related to the drilling of the Lone Mountain Canyon No. 1-11 well.

4. Within ninety (90) days following completion of the Lone Mountain Canyon No. 1-11 well and after assessment of test

and production data from that well, Petitioners and Respondent shall schedule a hearing before the Board and appear before the Board to testify and present evidence regarding the economic potential of the Lone Mountain Canyon No. 1-11 well, the size, extent and volume of the reservoir underlying Petitioners' and Respondent's respective leasehold interests, and the potential that Petitioners' Lone Mountain Canyon No. 1-11 well may drain Respondent's interests. Following a hearing of that evidence, the Board shall then set production ceilings for the Lone Mountain Canyon No. 1-11 well to protect the correlative rights of Petitioners and Respondent.

DATED this 9th day of April, 1985.

BOARD OF OIL, GAS & MINING

  
JAMES W. CARTER, Acting Chairman

APPROVED AS TO FORM:

  
MARK C. MOENCH  
Assistant Attorney General

MOBIL OIL CORPORATION  
LONE MOUNTAIN CANYON 1-11

MULTI-SHOT

42 S. 24 E. SEC. #1  
# 1-11

RECEIVED

JUN 05 1985

DIVISION OF OIL  
GAS & MINING

## GREATLAND DIRECTIONAL DRILLING

## COMPLETION REPORT

COMPUTED ON 5-31-85 USING RADIUS OF CURVATURE TECHNIQUE

FROM SURVEY DATA TAKEN 5-29-85

FINAL CLOSURE DIRECTION N 90.00 W

MULTI-SHOT

MOBIL OIL COMPANY

LONE MOUNTAIN CANYON #1-11 MS

RECORD OF SURVEY  
(WELL ASSUMED VERTICAL TO 150.0)

MEAS DEPTH	DRIFT DG MN	TRUVERT DEPTH	SUBSEA DEPTH	SECTION DIST	DIRECTION ANGLE	RELATIVE COORDINATES FROM WELL-HEAD			CLOSURE DISTANCE	DG MN	S	DOG LFG deg/1
0	0 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 0 0		0.000
150	0 30	150.00	150.00	0.65	N 90.00 W	0.00	S	0.65 W	0.65	S 90	0 0 W	0.333
239	0 45	238.99	238.99	1.63	N 90.00 W	0.00	S	1.63 W	1.63	S 90	0 0 W	0.281
524	0 45	523.97	523.97	5.36	N 90.00 W	0.00	S	5.36 W	5.36	S 90	0 0 W	0.000
826	1 0	825.93	825.93	9.97	N 90.00 W	0.00	S	9.97 W	9.97	S 90	0 0 W	0.083
1411	1 30	1410.79	1410.79	22.73	N 90.00 W	0.00	S	22.73 W	22.73	S 90	0 0 W	0.085
1546	1 30	1545.75	1545.75	26.24	N 79.00 W	0.34	N	26.24 W	26.24	N 89	15 42 W	0.006
1670	1 30	1669.70	1669.70	29.40	S 64.00 W	0.08	S	29.40 W	29.40	S 89	50 52 W	0.020
1794	1 15	1793.67	1793.67	32.20	S 76.00 W	1.09	S	32.20 W	32.21	S 88	3 14 W	0.202
1918	0 15	1917.66	1917.66	33.27	N 3.00 E	0.21	S	33.27 W	33.27	S 89	38 48 W	0.806
2042	0 15	2041.65	2041.65	33.20	N 13.00 E	0.33	N	33.20 W	33.20	N 89	25 50 W	0.000
2164	1 30	2163.64	2163.64	33.63	N 41.00 W	2.07	N	33.63 W	33.70	N 86	28 32 W	1.025
2268	1 30	2267.60	2267.60	35.65	N 55.00 W	3.89	N	35.65 W	35.86	N 83	46 30 W	0.009
2408	0 30	2407.58	2407.58	37.55	N 47.00 W	5.42	N	37.55 W	37.94	N 81	46 43 W	0.714
2530	0 30	2529.57	2529.57	38.13	N 20.00 W	6.30	N	38.13 W	38.65	N 80	36 41 W	0.000
2652	0 15	2651.57	2651.57	38.21	N 9.00 E	7.09	N	38.21 W	38.86	N 79	29 8 W	0.205
2774	1 15	2773.56	2773.56	39.24	S 67.00 W	7.90	N	39.24 W	40.03	N 78	37 8 W	0.821
2896	0 45	2895.54	2895.54	40.33	S 1.00 E	6.22	N	40.33 W	40.81	N 81	14 19 W	0.410
3018	1 15	3017.52	3017.52	41.77	N 77.00 W	5.05	N	41.77 W	42.07	N 83	6 11 W	0.412
3140	1 15	3139.49	3139.49	44.28	N 65.00 W	5.92	N	44.28 W	44.67	N 82	23 19 W	0.005
3262	1 0	3261.47	3261.47	46.60	S 66.00 W	5.94	N	46.60 W	46.98	N 82	44 21 W	0.205
3386	1 0	3385.45	3385.45	48.52	S 59.00 W	4.94	N	48.52 W	48.77	N 84	11 17 W	0.002
3510	1 0	3509.43	3509.43	50.59	N 63.00 W	4.87	N	50.59 W	50.83	N 84	30 20 W	0.014
3634	1 0	3633.41	3633.41	52.68	S 63.00 W	4.87	N	52.68 W	52.90	N 84	43 19 W	0.013
3758	0 30	3757.40	3757.40	53.60	N 22.00 E	5.71	N	53.60 W	53.91	N 83	54 58 W	0.403
3882	1 15	3881.39	3881.39	54.56	S 83.00 W	6.96	N	54.56 W	55.00	N 82	43 49 W	0.607
4006	3 45	4005.26	4005.26	59.91	N 73.00 W	7.43	N	59.91 W	60.37	N 82	55 56 W	2.018
4130	4 0	4128.97	4128.97	67.80	N 68.00 W	10.22	N	67.80 W	68.57	N 81	25 30 W	0.203

## RECORD OF SURVEY

MEAS DEPTH	DRIFT DG MN	TRUVERT DEPTH	SUBSEA DEPTH	SECTION DIST	DIRECTION ANGLE	RELATIVE COORDINATES FROM WELL-HEAD		CLOSURE				DOG LEG deg/100
								DISTANCE	DG	MN	S	
4254	5 15	4252.57	4252.57	77.28	N 75.00 W	13.39 N	77.28 W	78.43	N 80	10	1 W	1.009
4378	6 30	4375.91	4375.91	89.19	N 65.00 W	17.73 N	89.19 W	90.94	N 78	45	25 W	1.013
4502	6 0	4499.18	4499.18	101.32	N 63.00 W	23.65 N	101.32 W	104.05	N 76	51	47 W	0.404
4624	5 45	4620.54	4620.54	113.03	N 77.00 W	27.91 N	113.03 W	116.42	N 76	7	50 W	0.235
4746	4 45	4742.02	4742.02	123.46	N 62.00 W	31.81 N	123.46 W	127.49	N 75	33	10 W	0.824
4868	5 30	4863.53	4863.53	133.25	N 66.00 W	36.58 N	133.25 W	138.18	N 74	38	53 W	0.615
4990	4 30	4985.07	4985.07	142.67	N 59.00 W	41.49 N	142.67 W	148.58	N 73	47	9 W	0.6
5112	4 45	5106.67	5106.67	151.19	N 61.00 W	46.41 N	151.19 W	158.16	N 72	56	11 W	0.205
5234	3 45	5228.33	5228.33	158.94	N 57.00 W	51.06 N	158.94 W	166.94	N 72	11	22 W	0.820
5356	4 45	5350.00	5350.00	167.20	N 76.00 W	54.65 N	167.20 W	175.90	N 71	53	55 W	0.827
5478	6 15	5471.43	5471.43	178.16	N 64.00 W	58.64 N	178.16 W	187.57	N 71	46	50 W	1.235
5600	6 45	5592.65	5592.65	191.08	N 75.00 W	63.47 N	191.08 W	201.35	N 71	37	28 W	0.428

## DATA INTERPOLATED FOR EVEN 100 FEET OF SUBSEA DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	MD-TVD DIFF.	VERTICAL CORRECT	RELATIVE COORDINATES FROM WELL-HEAD	
0	0	0	0	0	0.00	0.00
100	100	100	0	0	0.00	0.00
200	200	200	0	0	0.00 S	1.15 W
300	300	300	0	0	0.00 S	2.42 W
400	400	400	0	0	0.00 S	3.73 W
500	500	500	0	0	0.00 S	5.04 W
600	600	600	0	0	0.00 S	6.39 W
700	700	700	0	0	0.00 S	7.88 W
800	800	800	0	0	0.00 S	9.52 W
900	900	900	0	0	0.00 S	11.30 W
1000	1000	1000	0	0	0.00 S	13.23 W
1100	1100	1100	0	0	0.00 S	15.31 W
1200	1200	1200	0	0	0.00 S	17.54 W
1300	1300	1300	0	0	0.00 S	19.92 W
1400	1400	1400	0	0	0.00 S	22.45 W
1500	1500	1500	0	0	0.15 S	25.06 W
1600	1600	1600	0	0	0.41 N	27.66 W
1700	1700	1700	0	0	0.44 S	30.09 W
1800	1800	1800	0	0	1.13 S	32.32 W
1900	1900	1900	0	0	2.28 S	32.88 W
2000	2000	2000	0	0	0.15 N	33.28 W
2100	2100	2100	0	0	0.88 N	33.20 W
2200	2200	2200	0	0	2.76 N	34.29 W
2300	2300	2300	0	0	4.33 N	36.30 W
2400	2400	2400	0	0	5.12 N	37.68 W
2500	2500	2500	0	0	5.86 N	38.22 W
2600	2600	2600	0	0	6.77 N	38.38 W
2700	2700	2700	0	0	7.45 N	38.30 W
2800	2800	2800	0	0	7.62 N	39.71 W
2900	2900	2900	0	0	6.16 N	40.33 W
3000	3000	3000	0	0	5.10 N	39.20 W
3100	3100	3100	0	0	5.33 N	43.55 W
3201	3200	3200	1	1	6.19 N	45.49 W
3301	3300	3300	1	0	5.65 N	47.21 W
3401	3400	3400	1	0	4.80 N	48.73 W

## DATA INTERPOLATED FOR EVEN 100 FEET OF SUBSEA DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	MD-TVD DIFF.	VERTICAL CORRECT	RELATIVE COORDINATES FROM WELL-HEAD	
3501	3500	3500	1	0	3.31 N	49.55 W
3601	3600	3600	1	0	5.06 N	52.13 W
3701	3700	3700	1	0	4.02 N	53.08 W
3801	3800	3800	1	0	6.17 N	53.59 W
3901	3900	3900	1	0	6.89 N	55.02 W
4001	4000	4000	1	0	5.36 N	59.33 W
4101	4100	4100	1	0	9.08 N	66.06 W
4201	4200	4200	1	0	12.08 N	72.89 W
4302	4300	4300	2	1	14.43 N	81.72 W
4402	4400	4400	2	0	18.87 N	91.66 W
4503	4500	4500	3	1	23.69 N	101.40 W
4603	4600	4600	3	0	27.40 N	111.02 W
4704	4700	4700	4	1	28.97 N	120.49 W
4804	4800	4800	4	0	34.08 N	127.91 W
4905	4900	4900	5	1	37.91 N	136.39 W
5005	5000	5000	5	0	42.09 N	143.69 W
5105	5100	5100	5	0	46.14 N	150.71 W
5206	5200	5200	6	1	49.69 N	157.51 W
5306	5300	5300	6	0	53.39 N	163.43 W
5406	5400	5400	6	0	55.54 N	171.53 W
5507	5500	5500	7	1	59.96 N	181.03 W

## DATA INTERPOLATED FOR EVEN 1000 FEET OF MEASURED DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	RELATIVE COORDINATES FROM WELL-HEAD	
1000	1000	1000	0.00 S	13.23 W
2000	2000	2000	0.15 N	33.28 W
3000	3000	3000	5.11 N	39.21 W
4000	3999	3999	5.38 N	59.29 W
5000	4995	4995	41.89 N	143.35 W



# Great Land Directional Drilling

## VERTICAL SECTION

MOBIL OIL COMPANY

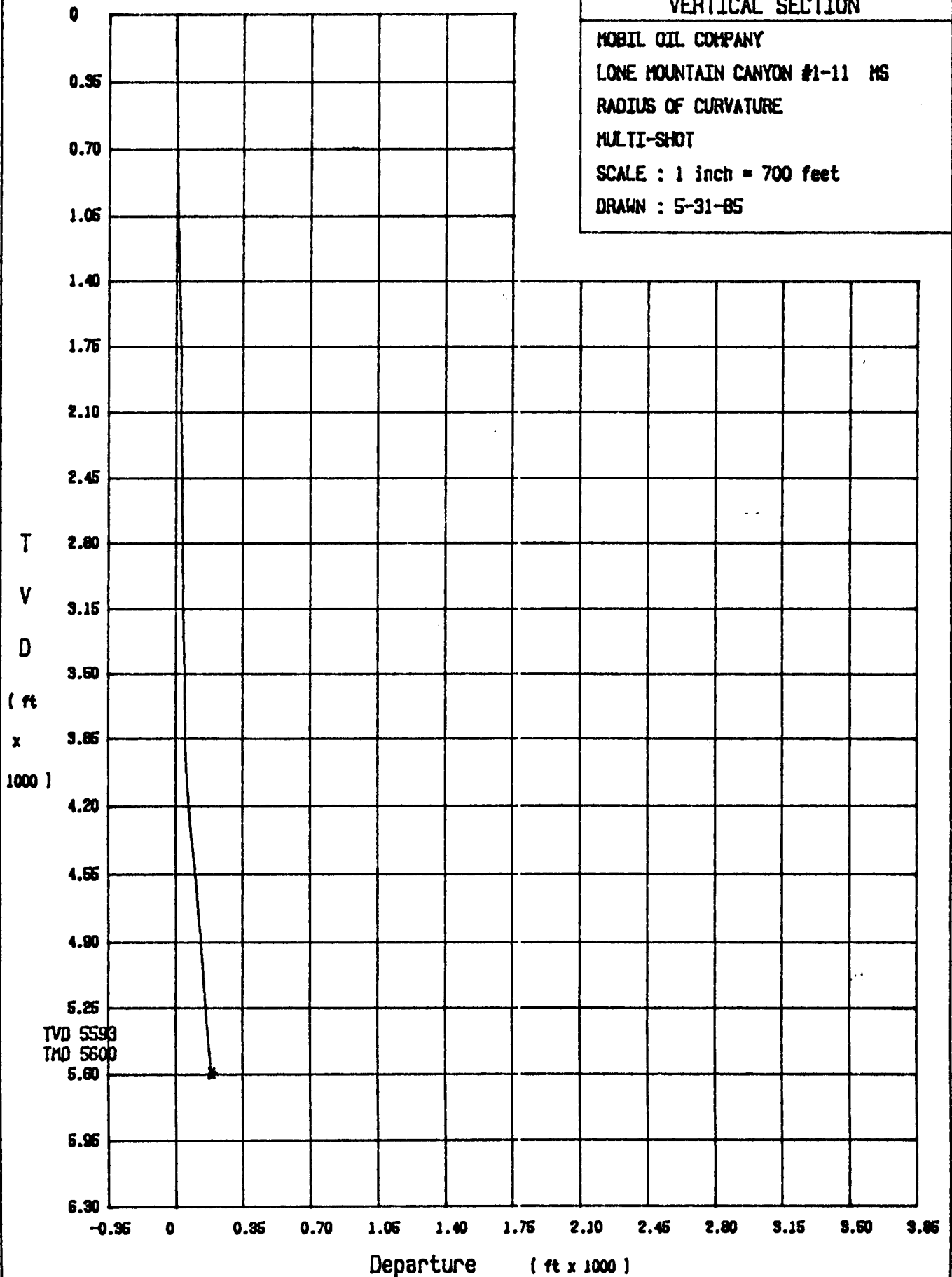
LONE MOUNTAIN CANYON #1-11 MS

RADIUS OF CURVATURE

MULTI-SHOT

SCALE : 1 inch = 700 feet

DRAWN : 5-31-85



# Great Land Directional Drilling

## Notes :

All values in feet.  
Depths shown are TVD.

Closure: 201 ft at N 71 deg 37 min W

Bottom hole:

TVD 5593

TMD 5600

Magnetic declination: 16 deg E

## HORIZONTAL VIEW

MOBIL OIL COMPANY

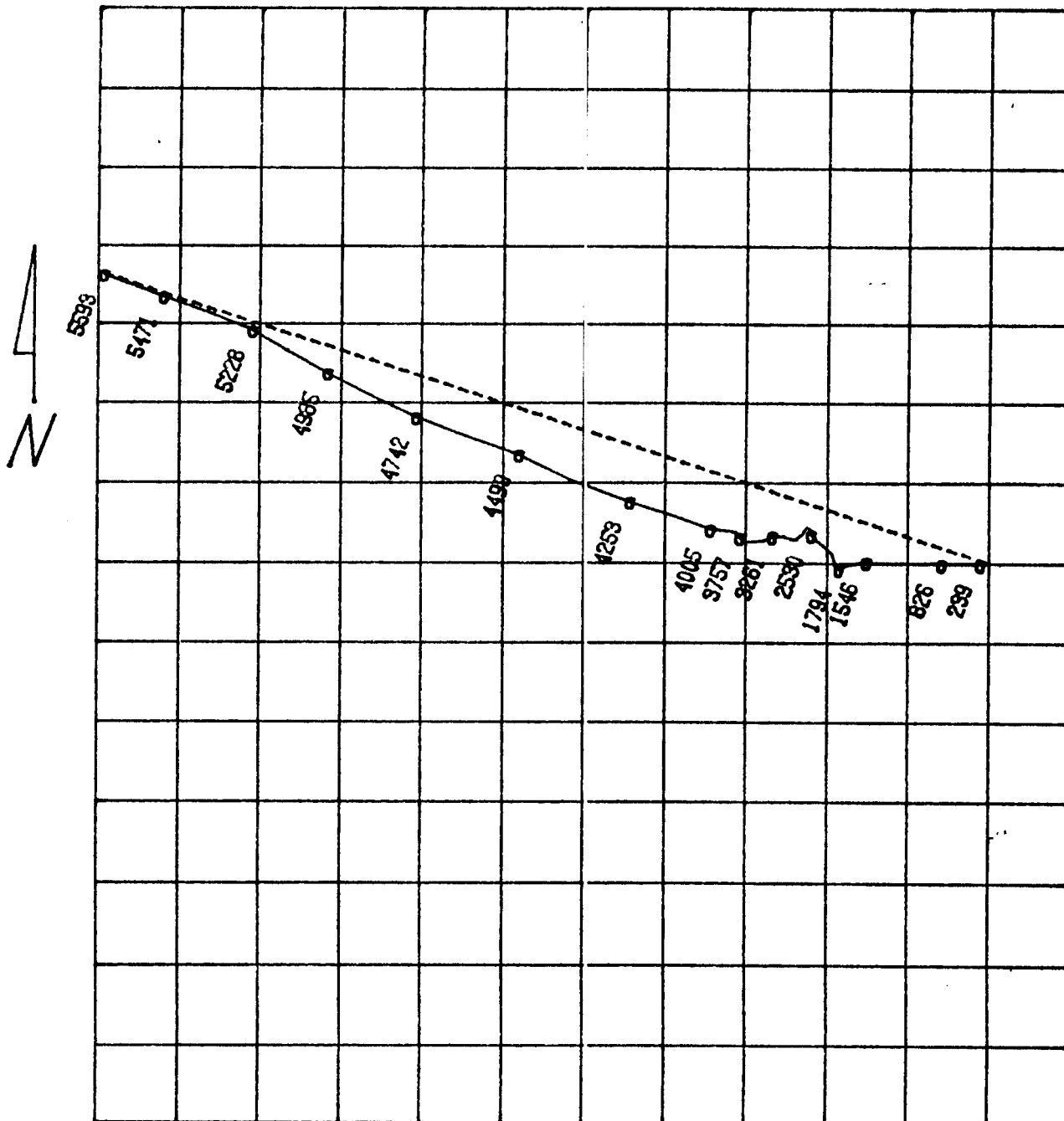
LONE MOUNTAIN CANYON #1-11 MS

RADIUS OF CURVATURE

MULTI-SHOT

SCALE : 1 inch = 35 feet

DRAWN : 5-31-85



# Mobil Oil Corporation

P.O. BOX 5444  
DENVER, COLORADO 80217

June 12, 1985

RECEIVED

JUN 17 1985

DIVISION OF OIL  
GAS & MINING

State of Utah  
Oil and Gas Commission  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

DIRECTIONAL SURVEY  
LONE MOUNTAIN CANYON 1-11  
SEC. 1 42S - 24E  
SAN JUAN COUNTY, UTAH  
DOCKET NO. 85-013  
CAUSE NO. 152-5

Please find enclosed two copies of the directional survey for the above referenced well. This is in response to the above listed final order.

Sincerely,



R. D. Baker  
Environmental/Regulatory Manager

CNE8502/cp

Attachments

cc: BLM Farmington  
Navajo Tribe  
Chuska Energy

RECEIVED

JUN 17 1965

DIVISION OF OIL  
GAS & MINING

MOBIL OIL CORPORATION  
LONE MOUNTAIN CANYON 1-11  
MULTI-SHOT

## GREATLAND DIRECTIONAL DRILLING COMPLETION REPORT

MOBIL OIL COMPANY

LONE MOUNTAIN CANYON #1-11 MS

COMPUTED ON 6-8-85 USING RADIUS OF CURVATURE TECHNIQUE  
 FROM SURVEY DATA TAKEN 5-29-85  
 FINAL CLOSURE DIRECTION N 90.00 W  
 MULTI-SHOT

RECORD OF SURVEY  
 (WELL ASSUMED VERTICAL TO 150.0)

MEAS DEPTH	DRIFT DG MN	TRUVERT DEPTH	SUBSEA DEPTH	SECTION DIST	DIRECTION ANGLE	RELATIVE COORDINATES FROM WELL-HEAD			CLOSURE DISTANCE	DG MN	S	DOG LE deg/100
0	0 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 0 0		0.000
150	0 30	150.00	150.00	0.65	N 90.00 W	0.00 S	0.65 W	0.65	S 90	0 0 W		0.333
239	0 45	238.99	238.99	1.63	N 90.00 W	0.00 S	1.63 W	1.63	S 90	0 0 W		0.281
524	0 45	523.97	523.97	5.36	N 90.00 W	0.00 S	5.36 W	5.36	S 90	0 0 W		0.000
826	1 0	825.93	825.93	9.97	N 90.00 W	0.00 S	9.97 W	9.97	S 90	0 0 W		0.083
1411	1 30	1410.79	1410.79	22.73	N 90.00 W	0.00 S	22.73 W	22.73	S 90	0 0 W		0.085
1546	1 30	1545.75	1545.75	26.24	N 79.00 W	0.34 N	26.24 W	26.24	N 89 15 42	W		0.006
1670	1 30	1667.70	1667.70	29.40	S 64.00 W	0.08 S	29.40 W	29.40	S 89 50 52	W		0.020
1794	1 15	1793.67	1793.67	32.20	S 76.00 W	1.09 S	32.20 W	32.21	S 88 3 14	W		0.202
1918	0 15	1917.66	1917.66	33.27	N 3.00 E	0.21 S	33.27 W	33.27	S 89 38 48	W		0.806
2042	0 15	2041.65	2041.65	33.20	N 13.00 E	0.33 N	33.20 W	33.20	N 89 25 50	W		0.000
2164	1 30	2163.64	2163.64	33.63	N 41.00 W	2.07 N	33.63 W	33.70	N 86 28 32	W		1.025
2268	1 30	2267.60	2267.60	35.65	N 55.00 W	3.89 N	35.65 W	35.86	N 83 46 30	W		0.000
2408	0 30	2407.58	2407.58	37.55	N 47.00 W	5.42 N	37.55 W	37.94	N 81 46 43	W		0.711
2530	0 30	2529.57	2529.57	38.13	N 20.00 W	6.30 N	38.13 W	38.65	N 80 36 41	W		0.002
2652	0 15	2651.57	2651.57	38.21	N 9.00 E	7.09 N	38.21 W	38.86	N 79 29 8	W		0.205
2774	1 15	2773.56	2773.56	39.24	S 67.00 W	7.90 N	39.24 W	40.03	N 78 37 8	W		0.821
2896	0 45	2895.54	2895.54	40.33	S 1.00 E	6.22 N	40.33 W	40.81	N 81 14 19	W		0.410
3018	1 15	3017.52	3017.52	41.77	N 77.00 W	5.05 N	41.77 W	42.07	N 83 6 11	W		0.412
3140	1 15	3139.49	3139.49	44.28	N 65.00 W	5.92 N	44.28 W	44.67	N 82 23 19	W		0.005
3262	1 0	3261.47	3261.47	46.60	S 66.00 W	5.94 N	46.60 W	46.98	N 82 44 21	W		0.205
3386	1 0	3385.45	3385.45	48.52	S 59.00 W	4.94 N	48.52 W	48.77	N 84 11 17	W		0.002
3510	1 0	3509.43	3509.43	50.59	N 63.00 W	4.87 N	50.59 W	50.83	N 84 30 20	W		0.014
3634	1 0	3633.41	3633.41	52.68	S 63.00 W	4.87 N	52.68 W	52.90	N 84 43 19	W		0.013
3758	0 30	3757.40	3757.40	53.60	N 22.00 E	5.71 N	53.60 W	53.91	N 83 54 58	W		0.403
3882	1 15	3881.39	3881.39	54.56	S 83.00 W	6.96 N	54.56 W	55.00	N 82 43 49	W		0.607
4006	3 45	4005.26	4005.26	59.91	N 73.00 W	7.43 N	59.91 W	60.37	N 82 55 56	W		2.018
4130	4 0	4128.97	4128.97	67.80	N 68.00 W	10.22 N	67.80 W	68.57	N 81 25 30	W		0.203

6-8-85

LONE MOUNTAIN CANYON #1-11 MS

## RECORD OF SURVEY

MEAS DEPTH	DRIFT DG MN	TRUVERT DEPTH	SUBSEA DEPTH	SECTION DIST	DIRECTION ANGLE	RELATIVE COORDINATES FROM WELL-HEAD		CLOSURE			DOG LEG deg/100
								DISTANCE	DG	MN S	
4254	5 15	4252.57	4252.57	77.28	N 75.00 W	13.39 N	77.28 W	78.43	N 80	10 1 W	1.009
4378	6 30	4375.91	4375.91	89.19	N 65.00 W	17.73 N	89.19 W	90.94	N 78	45 25 W	1.013
4502	6 0	4499.18	4499.18	101.32	N 63.00 W	23.65 N	101.32 W	104.05	N 76	51 47 W	0.404
4624	5 45	4620.54	4620.54	113.03	N 77.00 W	27.91 N	113.03 W	116.42	N 76	7 50 W	0.2
4746	4 45	4742.02	4742.02	123.46	N 62.00 W	31.81 N	123.46 W	127.49	N 75	33 10 W	0.824
4868	5 30	4863.53	4863.53	133.25	N 66.00 W	36.58 N	133.25 W	138.18	N 74	38 53 W	0.615
4990	4 30	4985.07	4985.07	142.67	N 59.00 W	41.49 N	142.67 W	148.58	N 73	47 9 W	0.820
5112	4 45	5106.67	5106.67	151.19	N 61.00 W	46.41 N	151.19 W	158.16	N 72	56 11 W	0.205
5234	3 45	5228.33	5228.33	158.94	N 57.00 W	51.06 N	158.94 W	166.94	N 72	11 22 W	0.820
5356	4 45	5350.00	5350.00	167.20	N 76.00 W	54.65 N	167.20 W	175.90	N 71	53 55 W	0.827
5478	6 15	5471.43	5471.43	178.16	N 64.00 W	58.64 N	178.16 W	187.57	N 71	46 50 W	1.235
5600	6 45	5592.65	5592.65	191.08	N 75.00 W	63.47 N	191.08 W	201.35	N 71	37 28 W	0.428

## DATA INTERPOLATED FOR EVEN 100 FEET OF SUBSEA DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	MD-TVD DIFF.	VERTICAL CORRECT	RELATIVE COORDINATES FROM WELL-HEAD	
0	0	0	0	0	0.00	0.00
100	100	100	0	0	0.00	0.00
200	200	200	0	0	0.00 S	1.15 W
300	300	300	0	0	0.00 S	2.42 W
400	400	400	0	0	0.00 S	3.73 W
500	500	500	0	0	0.00 S	5.04 W
600	600	600	0	0	0.00 S	6.39 W
700	700	700	0	0	0.00 S	7.88 W
800	800	800	0	0	0.00 S	9.52 W
900	900	900	0	0	0.00 S	11.30 W
1000	1000	1000	0	0	0.00 S	13.23 W
1100	1100	1100	0	0	0.00 S	15.31 W
1200	1200	1200	0	0	0.00 S	17.54 W
1300	1300	1300	0	0	0.00 S	19.92 W
1400	1400	1400	0	0	0.00 S	22.45 W
1500	1500	1500	0	0	0.15 S	25.06 W
1600	1600	1600	0	0	0.41 N	27.66 W
1700	1700	1700	0	0	0.44 S	30.09 W
1800	1800	1800	0	0	1.13 S	32.32 W
1900	1900	1900	0	0	2.28 S	32.88 W
2000	2000	2000	0	0	0.15 N	33.28 W
2100	2100	2100	0	0	0.88 N	33.20 W
2200	2200	2200	0	0	2.76 N	34.29 W
2300	2300	2300	0	0	4.33 N	36.30 W
2400	2400	2400	0	0	5.12 N	37.68 W
2500	2500	2500	0	0	5.86 N	38.22 W
2600	2600	2600	0	0	6.77 N	38.38 W
2700	2700	2700	0	0	7.45 N	38.30 W
2800	2800	2800	0	0	7.62 N	39.71 W
2900	2900	2900	0	0	6.16 N	40.33 W
3000	3000	3000	0	0	5.10 N	39.20 W
3100	3100	3100	0	0	5.33 N	43.55 W
3201	3200	3200	1	1	6.19 N	45.49 W
3301	3300	3300	1	0	5.65 N	47.21 W
3401	3400	3400	1	0	4.80 N	48.73 W

LONE MOUNTAIN CANYON #1-11 MS

6-8-85

## DATA INTERPOLATED FOR EVEN 100 FEET OF SUBSEA DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	MD-TVD DIFF.	VERTICAL CORRECT	RELATIVE COORDINATES FROM WELL-HEAD	
3501	3500	3500	1	0	3.31 N	49.55 W
3601	3600	3600	1	0	5.06 N	52.13 W
3701	3700	3700	1	0	4.02 N	53.08 W
3801	3800	3800	1	0	6.17 N	53.59 W
3901	3900	3900	1	0	6.89 N	55.02 W
4001	4000	4000	1	0	5.36 N	59.33 W
4101	4100	4100	1	0	9.08 N	66.06 W
4201	4200	4200	1	0	12.08 N	72.89 W
4302	4300	4300	2	1	14.43 N	81.72 W
4402	4400	4400	2	0	18.87 N	91.66 W
4503	4500	4500	3	1	23.69 N	101.40 W
4603	4600	4600	3	0	27.40 N	111.02 W
4704	4700	4700	4	1	28.97 N	120.49 W
4804	4800	4800	4	0	34.08 N	127.91 W
4905	4900	4900	5	1	37.71 N	136.39 W
5005	5000	5000	5	0	42.09 N	143.69 W
5105	5100	5100	5	0	46.14 N	150.71 W
5206	5200	5200	6	1	49.69 N	157.51 W
5306	5300	5300	6	0	53.39 N	163.43 W
5406	5400	5400	6	0	55.54 N	171.53 W
5507	5500	5500	7	1	59.96 N	181.03 W



DATA INTERPOLATED FOR EVEN 1000 FEET OF MEASURED DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	RELATIVE COORDINATES FROM WELL-HEAD	
1000	1000	1000	0.00 S	13.23 W
2000	2000	2000	0.15 N	33.28 W
3000	3000	3000	5.11 N	39.21 W
4000	3999	3999	5.38 N	59.29 W
5000	4995	4995	41.89 N	143.35 W

# Great Land Directional Drilling

## Notes :

All values in feet.  
Depths shown are TVD.

Closure: 201 ft at N 71 deg 37 min W

Bottom hole:

TVD 5593

TMD 5600

Magnetic declination: 13 deg E

## HORIZONTAL VIEW

MOBIL OIL COMPANY

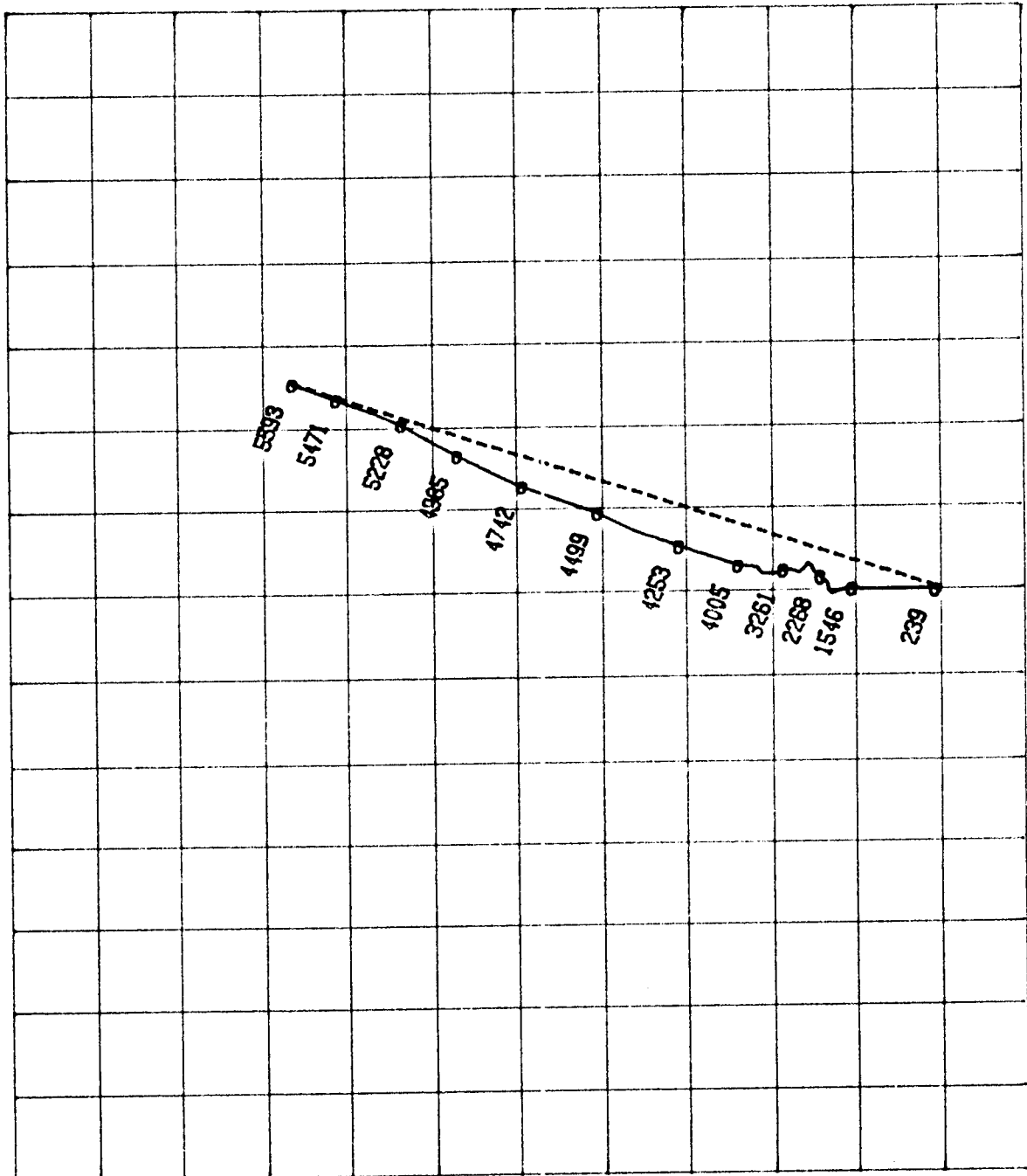
LONE MOUNTAIN CANYON #1-11 MS

RADIUS OF CURVATURE

MULTI-SHOT

SCALE : 1 inch = 50 feet

DRAWN : E-P-R5



# *Great Land Directional Drilling*

## VERTICAL SECTION

MOBIL OIL COMPANY

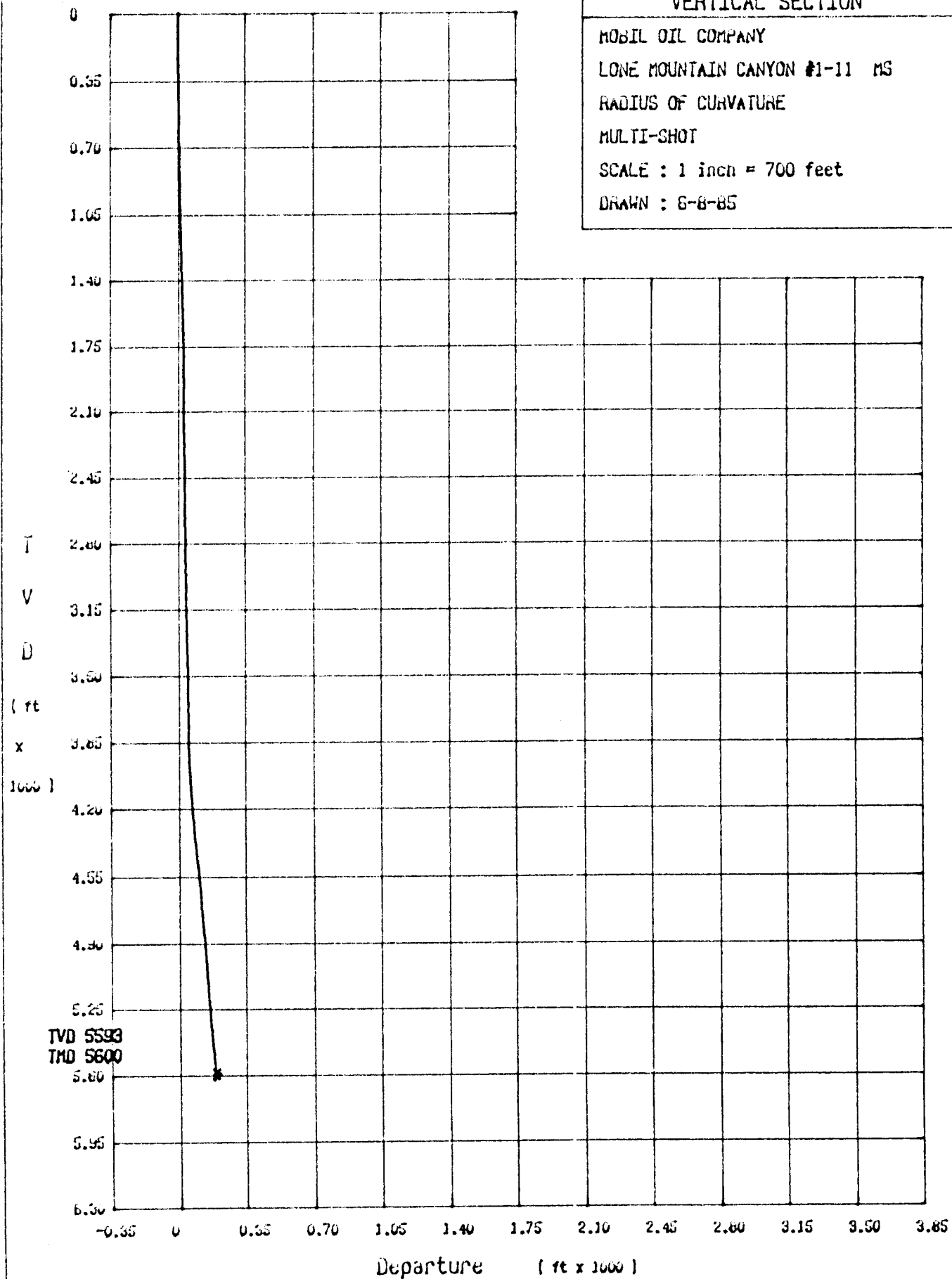
LONE MOUNTAIN CANYON #1-11 MS

RADIUS OF CURVATURE

MULTI-SHOT

SCALE : 1 inch = 700 feet

DRAWN : 6-8-85



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions  
verse side)

Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

JUN 21 1985

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

DIVISION OF OIL  
GAS & MINING

3. ADDRESS OF OPERATOR

P.O. DRAWER 'G' CORTIZ CO. 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)

At surface 1180' FNL, 500' FNL SEC. 1, NWNW

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR: 4712'

5. LEASE DESIGNATION AND SERIAL NO.

N00-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

LONE MOUNTAIN CANYON

9. WELL NO.

#1-11

10. FIELD AND POOL, OR WILDCAT

LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

SEC 1, T42S, R24E, S1M

12. COUNTY OR PARISH 13. STATE

SAN JUAN UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐

REPAIRING WELL

☐  
☐  
☐

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) FIRST SALEABLE OIL

☒

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

6-11-85: SUPERIOR OIL CO. FIRST PRODUCED SALEABLE OIL  
FROM THE SUBJECT WELL.

18. I hereby certify that the foregoing is true and correct

SIGNED

James S. Andrew

TITLE

ENGINEER

DATE

6/17/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-519	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR The Superior Oil Co./Mobil Oil Corporation Agent		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 5444, Denver, CO 80217		8. FARM OR LEASE NAME Lone Mountain Canyon	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1180 FNL 500 FWL At top prod. interval reported below 1122 FNL 322 FWL At total depth 1117 FNL 309 FWL NW NW		9. WELL NO. 1-11	
14. PERMIT NO. API 43-037-31083		10. FIELD AND POOL, OR WILDCAT Undesignated Lone Mountain Canyon	
15. DATE SPUDDED 5-10-85		11. SEC. T. R., M., OR BLOCK AND SURVEY OR AREA Sec. 1-42S-24E	
16. DATE T.D. REACHED 5-29-85		12. COUNTY OR PARISH San Juan	
17. DATE COMPL. (Ready to prod.) 6-26-85		13. STATE Utah	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* CL 4712		15. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 5618/5610		21. PLUG, BACK T.D., MD & TVD 5575/5567	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY 5618	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Desert Creek I 5431-5496 Desert Creek # 5508-5522		25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN GR-CCL-CBL-VDL		27. WAS WELL CORRED	
29. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
9-5/8	36# K55	1408	12-1/4
7	23# K55	5617	8-3/4"
CEMENTING RECORD		AMOUNT PULLED	
400 sks lite; 150 CL. B.			
300 sks class B; 125 sks BJ lite			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-7/8	5500		
31. PERFORATION RECORD (Interval, size and number)			
5431-5435 2SPF 9 shots			
5438-5496 2SPF 117 shots			
5508-5522 2SPF 29 shots			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
		Acidized 1900 gal 28% HCL	
		Acidized 9000 gal 28% HCL	
33.* PRODUCTION			
DATE FIRST PRODUCTION 7-19-85		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
WELL STATUS (Producing or shut-in) Producing			
DATE OF TEST 7-19-85	HOURS TESTED 24	CHOKE SIZE 3/4	PROD'N. FOR TEST PERIOD →
OIL—BBL. 1200	GAS—MCF. 1300	WATER—BBL. 12	GAS-OIL RATIO 1083
FLOW. TUBING PRESS. 350	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL GRAVITY-API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold			
TEST WITNESSED BY Ray Mari			
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <u>Richard Schammel</u> TITLE <u>Prod. Acct. Svr.</u> DATE <u>8/14/85</u>			

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Ismay	5241					
Lower Ismay	5358					
Gothic	5391					
Desert Creek	5407					
Chimney Rock	5576					

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Flowline to 1-44 Battery	5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-5119
2. NAME OF OPERATOR SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORP.	6. IF INDIAN, ALLEGATEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Drawer G, Cortez, Co. 81321	7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1180' FNL, 500 FWL	8. FARM OR LEASE NAME Lone Mountain Canyon
14. PERMIT NO.	9. WELL NO. 1-11
15. ELEVATIONS (Show whether DF, RT, GR, etc.) DIVISION BAS 8	10. FIELD AND POOL, OR WILDCAT Lone Mountain Canyon
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 1, T42S, R24E
	12. COUNTY OR PARISH, 13. STATE San Juan Utah

RECEIVED  
SEP 03 1985

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) construct flowline	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Mobil Oil Corporation, Agent for Superior Oil Company, proposes to construct 5070' of 3" flowline laying on the ground surface from Lone Mountain Canyon Well 1-11 (1180' FNL, 500 FWL) to the Battery at Lone Mountain Canyon well 1-44 location (710' FSL, 1180' FEL). A plat of the flowline alignment is attached.

All the project is within the lease designated above. This project is being done to eliminate the cost of constructing another battery at the LMC 1-11 location.

Construction will commence as soon as approval is made.

18. I hereby certify that the foregoing is true and correct

SIGNED Clyde J. Benally TITLE Sr. Regulatory Coordinator DATE 8/29/85  
C. J. Benally

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

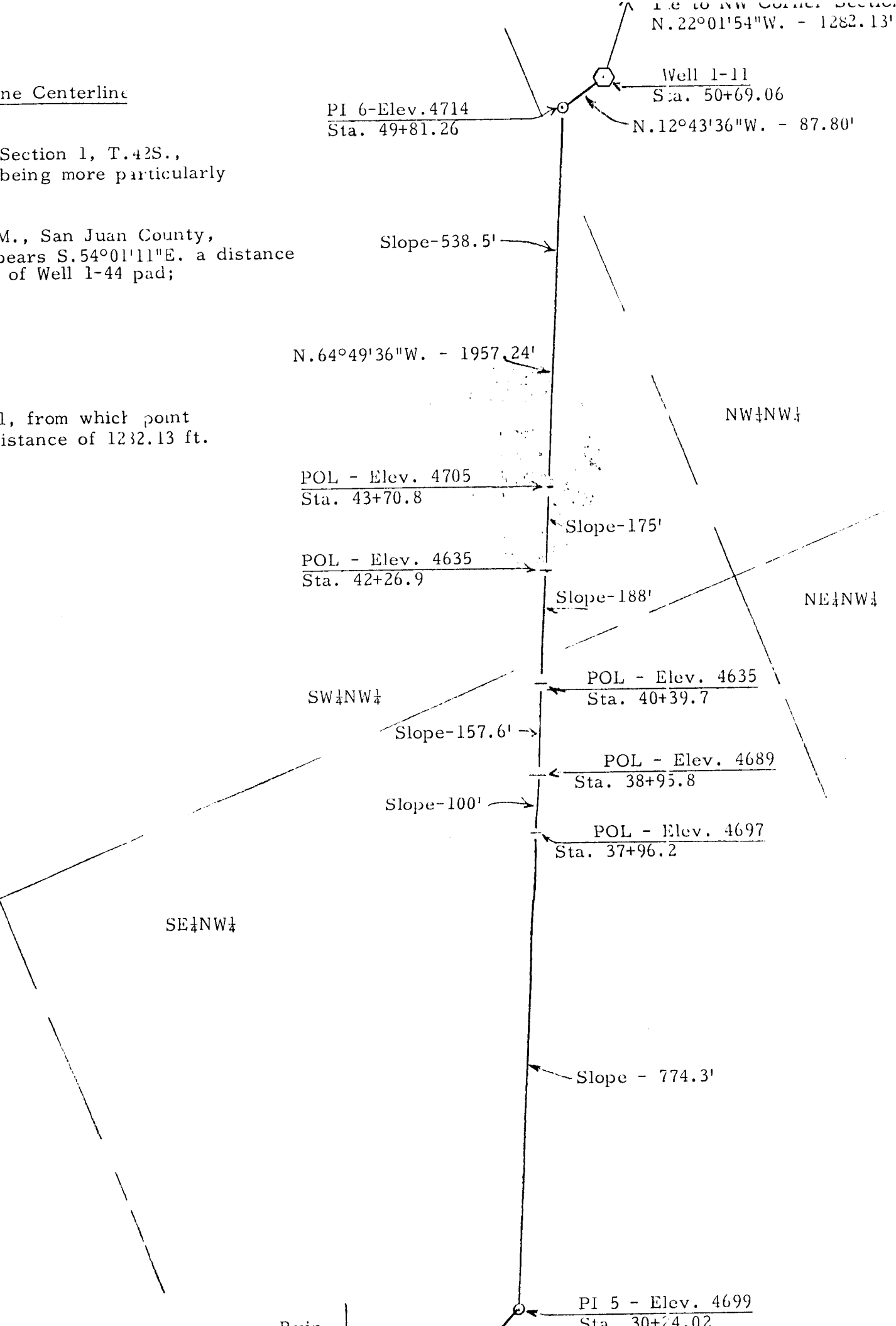
\*See Instructions on Reverse Side

ne Centerline

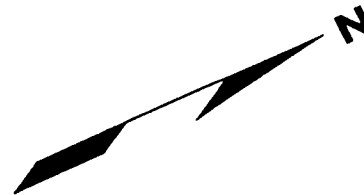
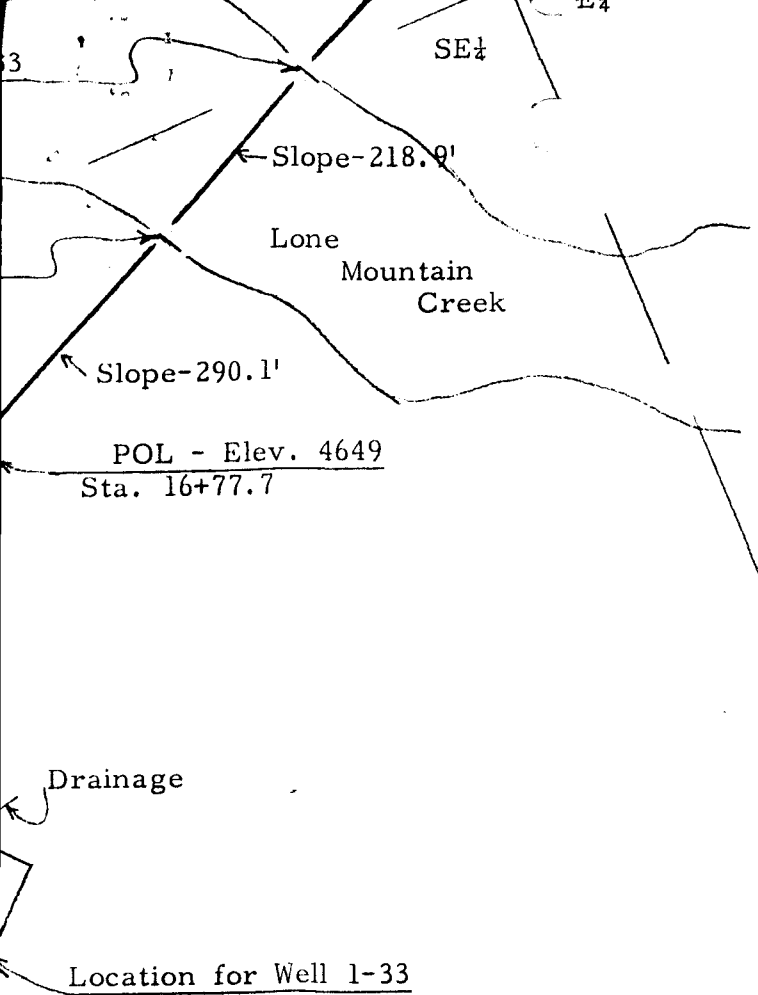
Section 1, T.42S.,  
being more particularly

M., San Juan County,  
bears S.54°01'11"E. a distance  
of Well 1-44 pad;

1, from which point  
distance of 1232.13 ft.







Scale: 1" = 200'

ft sand dune

.60'

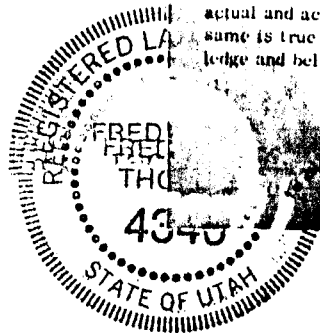
KNOW ALL MEN BY THESE PRESENTS:

That I, Fredric P. Thomas do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the same is true and correct to the best of our knowledge and belief.

*Fredric P. Thomas*

Fredric P. Thomas  
Reg. L. S. and P. E.  
Colo. Reg. No. 6728

Utah Reg. No. 4346



**THOMAS Engineering Inc.**  
CORTIZ, COLORADO

July 22, 1985

SURVEY FOR MOBIL OIL AS AGENT FOR  
SUPERIOR OIL

Cor. Well 1-44 pad

P01'11"E.-1483.54'

Location of powerline and pipeline from 1-44 to 1-11  
Lone Mountain Canyon

POL - Elev. 4631  
Sta. 21+84.8

POL - Elev. 4631  
Sta. 19+66.2

Slope - 436.2'

PI 4 - Elev. 4697  
Sta. 12+50.22

Slope - 560.2'

N. 62° 32' 19" W. - 558.17'

PI 3 - Elev. 4702  
Sta. 6+92.05

Area of dri

N. 49° 21' 34" W. - 52

Slope - 522'

PI 2 - Elev. 4671  
Sta. 1+77.45

N. 55° 11' 24" W. -  
170.45'

Slope - 172.5

Pad 1-44

Roadway

PI 1 - Elev. 4670 (NE)  
Sta. (+00)

Tie to SE Cor. Sec. 1: S. 5

Legal Description, Proposed Pipeline and Powerline  
From 1-44 to 1-11

An easement for purposes of a pipeline and powerline in R.24E., S.L.M., San Juan County, Utah, the centerline described as follows:

Beginning at a point in Section 1, T.42S., R.24E., S.L. Utah, from which point the SE Corner of said Section 1 of 1483.54 ft. , said point of beginning is the NE Corner

thence, N.55°11'24"W. a distance of 170.45 ft.;  
thence, N.49°21'34"W. a distance of 521.60 ft.;  
thence, N.62°32'19"W. a distance of 558.17 ft.;  
thence, N.25°30'33"W. a distance of 1773.80 ft.;  
thence, N.64°49'36"W. a distance of 1957.24 ft.;  
thence, N.12°43'36"W. a distance of 87.80 ft. to Well 1-1  
the NW Corner of said Section 1 bears N.22°01'54"W. a c



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 13, 1985

Superior Oil Company  
P.O. Drawer G  
Cortez, Colorado 81321

Gentlemen:

Re: Well No. Lone Mountain Canyon 1-11 - Sec. 1, T. 42S, R. 24E,  
San Juan County, Utah - API #43-037-31083

This letter is to advise you that Sec. 38, Geologic Markers, on the back side of the "Well Completion or Recompletion Report and Log" for the above referenced well was not filled in when this report was submitted.

Also, according to our records a "Well Completion Report" filed with this office August 14, 1985 on the above referenced well indicates a Cement Bond Log was run. This office has not yet received a copy of this log.

We are sure this was an oversight on your part and we request that you complete the enclosed Form OGC-3 and forward it to this office as soon as possible, but not later than September 27, 1985.

Sincerely,

Pam Kenna  
Well Records Specialist

Enclosure

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File

0170S/21

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN 7  
(Other instruct  
verie side)

CATE  
OB Te

Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

OIL WELL ☐ GAS WELL ☒ OTHER POWERLINE

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY, through its agent, MOBIL OIL CORP.

3. ADDRESS OF OPERATOR

P.O. DRAWER G, CORTEZ, CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

1180' FNL, 500' FWL

14. PERMIT NO.

43-037-31083

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4712' ungraded GR

5. LEASE DESIGNATION AND SERIAL NO.

N00-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Lone Mountain Canyon

9. WELL NO.

#1-11

10. FIELD AND POOL, OR WILDCAT

Lone Mountain Canyon

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec 1, T42S, R24E SLM

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANE

((Other)

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Mobil Oil Corporation, Agent for Superior Oil Company, to construct approx. 4,440' of 12.5 KV powerline from the existing Utah Power & Light Company line to serve the above referenced well. See attached plats.

The construction of the line is being coordinated with Utah Power & Light Company and Chuska Energy Company to reduce and/or eliminate additional impact to the area.

No grading will be done unless it is absolutely necessary, and if grade is done, restoration will be done according to stipulations established for this project by the Bureau of Indian Affairs, Shiprock Agency.

All the project is within the lease designated above and the alignment of the proposed powerline was archaeologically cleared by the Bureau of Indian Affairs per BIA-NAO-DCA-85-006, dated February 13, 1985 and at the well site per BIA NTM-84-532, dated November 28, 1984.

RECEIVED

OCT 15 1985

DIVISION OF OIL  
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*Clyde F. Benally*  
C. J. BENALLY

TITLE

Sr. Regulatory Coordinator

DATE

(This space for Federal or State office use)

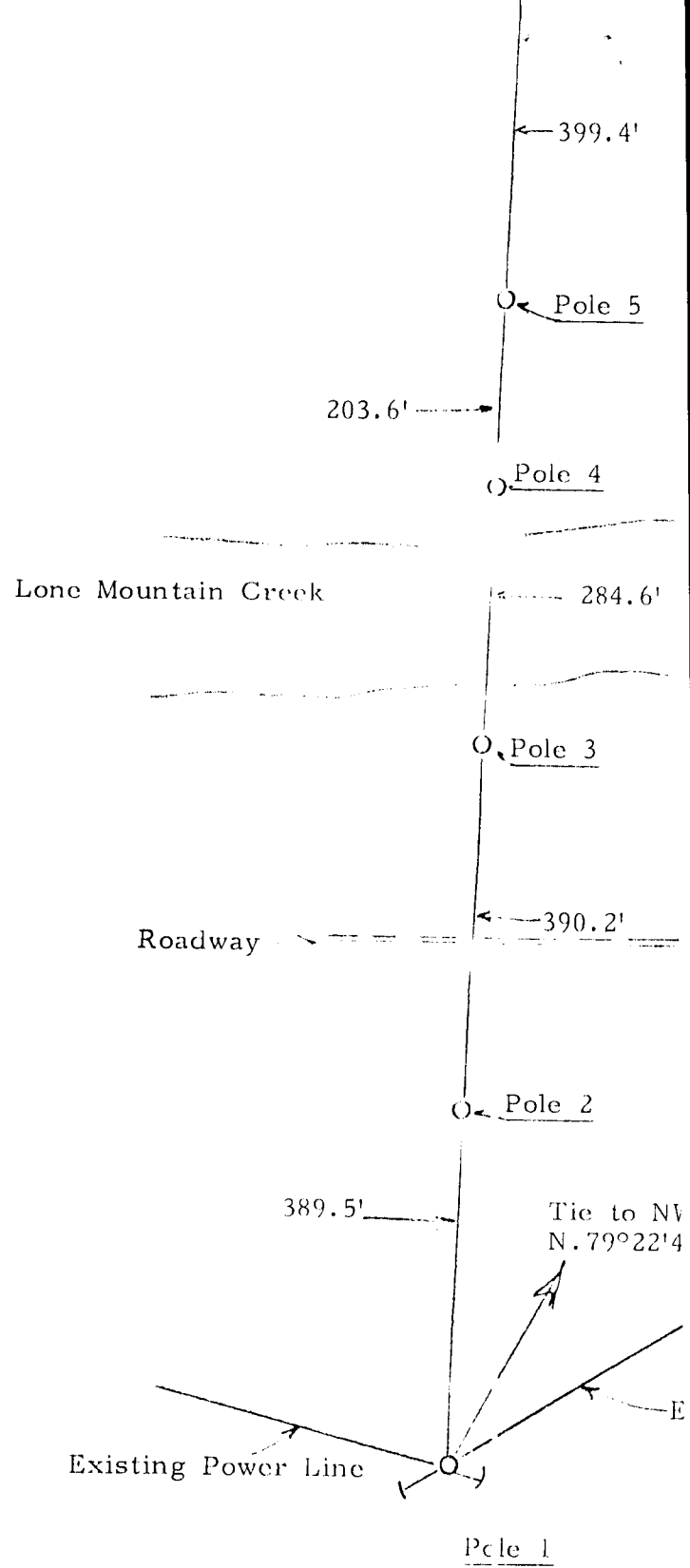
APPROVED BY

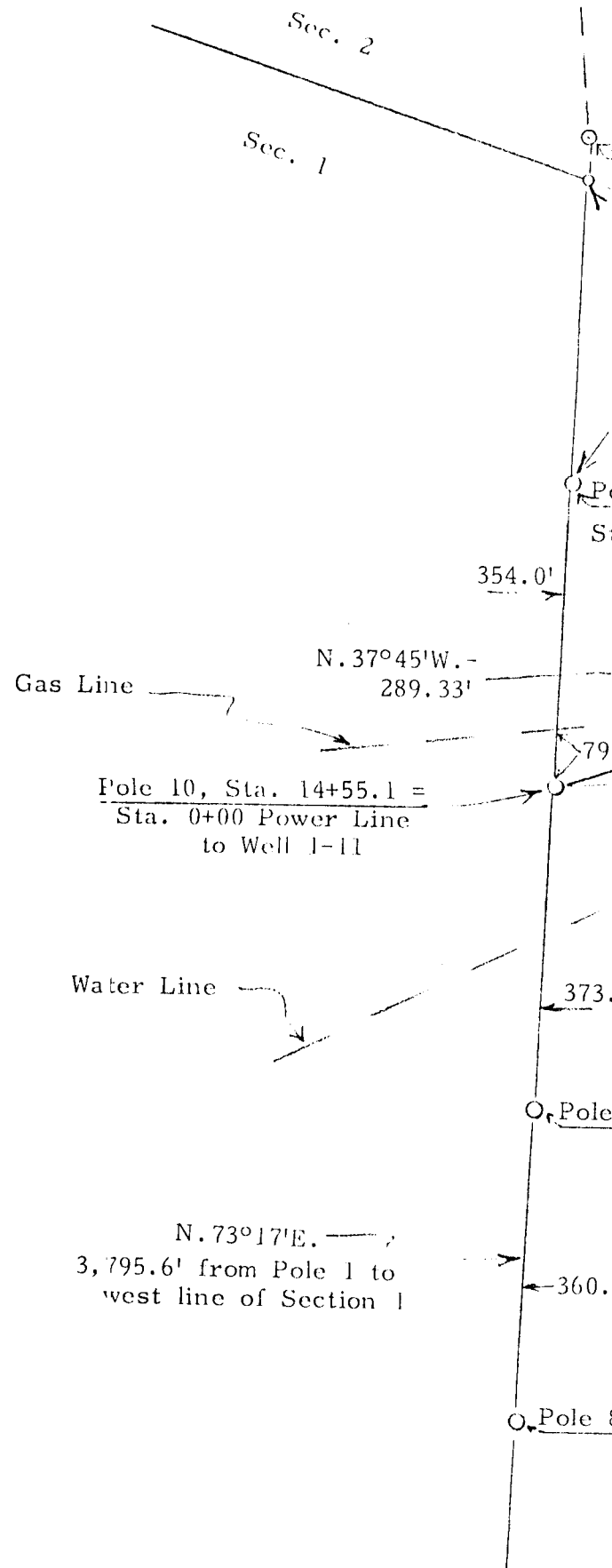
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

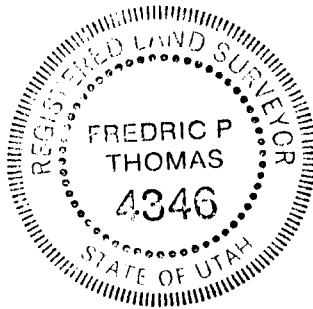
\*See Instructions on Reverse Side





Note: Map of Distribution Line to Serve Chuska Oil Well, Utah Power and Light Company, dated October 1, 1984, used as basis for this map. The Power Line to Well 1-11 was surveyed by our firm, using above mentioned map as basis.

*Fredric P Thomas*



V Corner Section 1:  
8"W. - 3698.25'

Existing Power Line

<b>THOMAS Engineering</b> CORTAZ, COLORADO	
<u>Mobil Oil as Agent for Superior Oil</u>	
Map of location of power lines in Section 1, T.42S., R.24E., S.L.M., San Juan County Utah	
Date <u>10-9-85</u> Revised _____	Drawn By _____ File No. _____



Pole 12  
Sta. 7+01.1

351.0'

North - 1772.86'

Pole 11  
Sta. 11+01.1

Power Line to Well 1-11

Service Pole  
Sta. 2+89.3

40' guy

Tie to NW Cor. Sec. 1: N. 20° 22' 17" W. - 1430.80'

Well 1-11  
Sta. 4+42.8

N. 0° 22' 30" W. - 153.40'

Tie to NW Cor. Sec. 1:  
N. 23° 16' 11" W. - 1709.10'

4'

9

Section 1, T.42S., R.24E., S.L.M., San Juan County, Utah

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

EXPIRES AUGUST 31, 1987  
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

NOO-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Lone Mtn. Canyon

9. WELL NO.

1-11

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

Sec. 1 T<sup>42</sup><sub>41</sub>S R24E

12. COUNTY OR PARISH 13. STATE

San Juan

UT

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR  
A.P.A. Development Inc.

3. ADDRESS OF OPERATOR  
P.O. Box 215, Cortez, CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

14. PERMIT NO.  
43-027-31082

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐ PULL OR ALTER CASING ☐  
FRACTURE TREAT ☐ MULTIPLE COMPLETE ☐  
SHOOT OR ACIDIZE ☐ ABANDON\* ☐  
REPAIR WELL ☐ CHANGE PLANS ☐

(Other) Change of Operator

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐ REPAIRING WELL ☐  
FRACTURE TREATMENT ☐ ALTERING CASING ☐  
SHOOTING OR ACIDIZING ☐ ABANDONMENT\* ☐

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.

Change of Operator from Mobil to A.P.A. Development Inc.

RECEIVED  
FEB 07 1991  
DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Patricia R. Woolly TITLE Supervisor

DATE 1/21/91

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

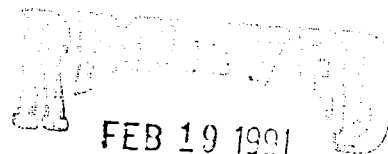
DATE \_\_\_\_\_

\*See Instructions on Reverse Side

# Mobil Oil Corporation

P.O. BOX 219031  
DALLAS, TEXAS 75221-9031

February 15, 1991



Utah Oil & Gas  
Att: Steve Schneider  
355 West N Temple Suite 350  
Salt Lake City UT 84180

DIVISION OF  
OIL, GAS & MINING

## CHANGE OF OPERATOR

(LONE MOUNTAIN CANYON)

API NO. 1-11 4303731083 - 42S, 24E, Sec. 1  
1-33 4303730908 - 42S, 24E, Sec. 1  
1-44 4303730847 - 42S, 24E, Sec. 1  
36-34 4303730864 - 42S, 24E, Sec. 36

This letter is to inform Utah Oil & Gas that MEPNA is no longer the operator of Lone Mountain Canyon. These properties were sold to APA Development effective date June 1, 1989 closing date December 6, 1989. Our report still indicate MEPNA as operator. To ensure accuracy please send newly corrected Oil and Gas Monthly Reports to:

Mobil Oil Corporation  
Hobbs Asset Team  
Att: Tangela Shavers  
P O Box 219031  
Dallas TX 75221-9031

Any questions call (214)658-2729. Your cooperation is well appreciated.

Sincerely,

TRS:llc

T. R. Shavers  
Hobbs Asset Team Accounting  
Dallas Accounting Center

A7472360

1- LCR	<input checked="" type="checkbox"/>
2- DTS	<input checked="" type="checkbox"/>
3- VLC	<input checked="" type="checkbox"/>
4- RJF	<input checked="" type="checkbox"/>
5- RWM	<input checked="" type="checkbox"/>
6- LCR	<input checked="" type="checkbox"/>

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

☒ Change of Operator (well sold) ☐ Designation of Agent  
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 6-1-89)

TO (new operator) <u>APA DEVELOPMENT, INC.</u>	FROM (former operator) <u>M E P N A</u>
(address) <u>P. O. BOX 215</u>	(address) <u>P. O. BOX 219031</u>
<u>CORTEZ, CO 81321</u>	<u>DALLAS, TX 75221-9031</u>
phone ( <u>303</u> ) <u>565-8245</u>	phone ( <u>214</u> ) <u>658-2690</u>
account no. <u>N 7185</u>	account no. <u>N7370</u>

Well(s) (attach additional page if needed):

Name: <u>LONE MTN CYN 1-11/DSCR</u>	API: <u>4303731083</u>	Entity: <u>6030</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MTN CYN 1-33/TA</u>	API: <u>4303730908</u>	Entity: <u>11175</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MTN CYN 1-44/DSCR</u>	API: <u>4303730847</u>	Entity: <u>6030</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MTN CYN 36-34/DSCR</u>	API: <u>4303730864</u>	Entity: <u>5985</u>	Sec <u>36</u> Twp <u>41S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

# OPERATOR CHANGE DOCUMENTATION

- 1 (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Reg. Amended Letter 2-13-91) (Rec. 2-17-91)*
- 2 (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Reg. 2-5-91 by Steve S.) (Rec. 2-7-91)*
- 3 The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) yes If yes, show company file number: #138468.
- 4 (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 5 Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(3-14-91)*
- 6 Cardex file has been updated for each well listed above.
- 7 Well file labels have been updated for each well listed above.
- 8 Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(3-14-91)*
- 9 A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

# ENTITY REVIEW

- (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) NO (If entity assignments were changed, attach copies of Form 5, Entity Action Form).
- State Lands and the Tax Commission have been notified through normal procedures of entity changes.

## VERIFICATION (Fee wells only)

- (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- A copy of this form has been placed in the new and former operators' bond files.
- The former operator has requested a release of liability from their bond (yes/no) \_\_\_\_\_. Today's date \_\_\_\_\_ 19\_\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_.

## INTEREST OWNER NOTIFICATION RESPONSIBILITY

- (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- Copies of documents have been sent to State Lands for changes involving State leases.

## INDEXING

- All attachments to this form have been microfilmed. Date: March 20 1991.

## FILED

- Copies of all attachments to this form have been filed in each well file.
- The original of this form and the original attachments have been filed in the Operator Change file.

## REMARKS

910311 Errol Beecher / Btm Farmington N.M. "Says that the Navajo Tribe does not want any information regarding their leases, particularly the state, given out without their consent. Says that if we can obtain that consent from the Navajo Tribe they will be happy to give out that info." I asked if he had anything in writing to that effect, and if he could mail that info. to our office. "He said he would check."

MAY 16 1994

RECEIVED  
MAY 16 1994

A.P.A. DEVELOPMENT , INC. /N 7185  
P.O. Box 215  
Cortez, CO 81321-0215

May 12, 1994

Utah Oil, Gas and Mining  
355 West North Temple St., Suite 350  
Salt Lake City, Utah 84180-1203

Gentlemen:

Enclosed please find copies of "Designation of Operator" to verify that ownership and operation of NOO-C-14-20-5117 and NOO-C-14-20-5119 have been changed from A.P.A. Development, Inc. to Colorado Pica Petroleum Corporation.

Yours truly,

A.P.A. DEVELOPMENT, INC.



Patrick B. Woosley, President

PBW;jm

Enclosures as stated

RECEIVED  
BLM

## DESIGNATION OF OPERATOR

93 DEC 15 AM 11

4  
070 PARMING

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Santa Fe, New Mexico  
SERIAL NO.: NOO-C-14-20-5119

and hereby designates

NAME: Colorado PICA Petroleum Corporation  
ADDRESS: 2002 Rolling Road, Cortez, CO 81321

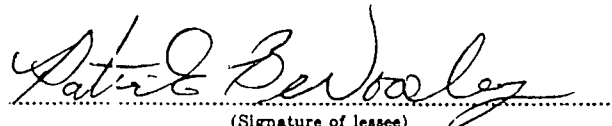
as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Legal description is contained on Exhibit A attached hereto and incorporated herein by this reference.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.



(Signature of lessee)

Patrick B. Woosley, President  
A.P.A. Development, Inc.

P.O. Box 215, Cortez, CO 81321

(Address)

December 1, 1993

(Date)

U.S. GOVERNMENT PRINTING OFFICE: 1964-O-726-354

9 10-536

Pursuant to Secretarial  
Redelegation Order 209 DM  
8, Secretary's Order No.  
3150, as amended, and 10 BIAM  
Bulletin 13, as amended.

ACTING Navajo Area Director

DEC 23 1993

RES-Minerals Section

DESIGNATION OF OPERATOR

RECEIVED  
BLM  
98 DEC 15 AM 11:06

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Santa Fe, New Mexico  
SERIAL No.: NOO-C-14-20-5119

and hereby designates

NAME: Colorado PICA Petroleum Corporation  
ADDRESS: 2002 Rolling Road, Cortez, CO 81321

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Legal description is contained on Exhibit A attached hereto and incorporated herein by this reference

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.



(Signature of lessee)

Patrick B. Woosley, President  
A.P.A. Development, Inc.

P.O. Box 215, Cortez, CO 81321

(Address)

December 1, 1993

(Date)

U.S. GOVERNMENT PRINTING OFFICE: 19-4-O-726-354

9 10 • 5 36

Pursuant to Secretarial  
Redelegation Order 209 DM 8,  
Secretary's Order No. 3150,  
as amended, and 10 BIAM  
Bulletin 13, as amended.

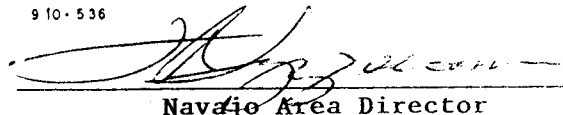
  
Navajo Area Director



EXHIBIT A

Lands located in San Juan County, Utah

Township 42 South, Range 24 East, S.L.M.

Section 1: All

San Juan County, Utah

43-037-31083 / 1-11 NWNW

43-037-30908 / 1-33 NWSE

43-037-30847 / 1-44 SESE

# COLORADO PICA PETROLEUM CORPORATION

---

2002 Rolling Road Cortez, Colorado 81321 (303) 565-4993

OCT 28 1994

October 26, 1994

Att: Lisha Cordova  
State of Utah  
Division of Oil, Gas and Mining  
355 West North Temple St., Suite 350  
Salt Lake City, Utah 84180-1203

Dear Ms. Cordova,

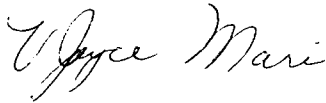
Enclosed please find copies of the Navajo Nation assignment of Mining Lease for Lone Mountain Lease No. NOO-C-14-20-5117 and Lease No. NOO-C-14-20-5119.

Enclosed also are approved copies of Designation of Operator from the BLM for the above named leases.

We have not received BIA forms as they have written that they have a backlog.

I hope this will enable you to send to me the report forms 10 and 11 for monthly oil and gas production and disposition reports.

Yours truly,



V. Joyce Mari

Enclosures as stated

# THE NAVAJO NATION

MINERALS DEPARTMENT  
DIVISION OF NATURAL RESOURCES

OCT 28 1994

## ASSIGNMENT OF MINING LEASE

PART I

Lease No. NOO-C-14-20-5119

1. **Original Lessee:** Raymond T. Duncan
2. **Date of Approval of Original Lease:** March 5, 1973
3. **Royalty Rate:** 16.67%
4. **Current Lease Description:** \_\_\_\_\_  
T42S-R24E, S.L.M.  
Section 1: All  
San Juan County, Utah  
Containing 640.00 acres, more or less.
5. **Description of Land Being Assigned:** T42S-R24E, S.L.M.  
Section 1: All  
San Juan County, Utah  
Containing 640.00 acres, more or less
6. **Assignor:** A.P.A. Development, Inc.
7. **Assignee:** Colorado Pica Petroleum Corporation
8. **Portion of Rights/Title Under Transfer:** 50% operating rights from surface down to stratigraphic equivalent of 5,526', which is all of Assignor's interest.
9. **Reserved Overriding Royalties:** 3.33%
10. **Previous Assignments and Portion of rights/title transferred:**
  - (1) Assignment of a 2% of 8/8ths overriding royalty from Raymond T. Duncan to D-T Company dated 2/9/83.
  - (2) Assignment of a 1.33% of 8/8ths overriding royalty from Raymond T. Duncan to Raymond T. Duncan dated 2/9/83.
  - (3) Assignment of a 30% interest from Raymond T. Duncan to Vincent J. Duncan dated 2/10/83. Approved on 3/31/88.

If there have been more than three (3) previous assignments, please use continuation form(s).

The assignee shall furnish to the lessor (The Navajo Nation, c/o the Minerals Department, P.O. Box 146, Window Rock, AZ 86515), all copies of all reports filed with the Minerals Management Service and the Bureau of Land Management subsequent to federal laws and regulations, when filed. The assignee shall furnish also all oil and gas run tickets, copies of drillstem tests, pressure tests, core analyses, seismic data and any other information required by the Minerals Department for this lease.

Colorado Pica Petroleum Corporation

July 27, 1994

Date

Raymond T. Duncan  
Assignee's Signature

### President's Office - Approval

This assignment has been reviewed by the appropriate Departments of the Navajo Nation and is hereby approved.

SEP 28 1994

Date

[Signature]  
President  
The Navajo Nation

CONTINUATION SHEET

Lease No. NOO-C-14-20-5119

(4) Assignment of a 25% interest from Raymond T. Duncan to J. Walter Duncan, Jr. dated 2/10/83. Approved on 3/31/88.

(5) Assignment of a 22.5% operating rights from surface down to the stratigraphic equivalent of 5,526' from Raymond T. Duncan to the Superior Oil Company dated 2/11/83. Approved on 3/30/88.

(6) Assignment of a 15% operating rights from surface down to the stratigraphic equivalent of 5,526' from Vincent J. Duncan to the Superior Oil Company dated 2/11/83. Approved on 3/30/88.

(7) Assignment of a 12.5% operating rights from surface down to the stratigraphic equivalent of 5,526' from J. Walter Duncan, Jr. to the Superior Oil Company dated 2/11/83. Approved on 3/30/88.

(8) Superior Oil Co. merged into Mobil Oil Company.

(9) Assignment of 50% operating rights from surface down to the stratigraphic equivalent of 5526' from Mobil Exploration and Producing N.A. Inc., Navajo Nation approved on January 19, 1990. BIA approval pending.

( )

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( )

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1- <del>WBC</del> 7-PL	✓
2- LWP 8-SJ	✓
3- <del>DTS</del> 9-FILE	✓
4- VLC	✓
5- RJF	✓
6- LWP	✓

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold) ☐ Designation of Agent  
~~XXX~~ ☒ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-25-94)

TO (new operator)	<u>COLORADO PICA PETRO. CORP.</u>	FROM (former operator)	<u>APA DEVELOPMENT INC</u>
(address)	<u>2002 ROLLING RD</u>	(address)	<u>PO BOX 215</u>
	<u>CORTEZ CO 81321</u>		<u>CORTEZ CO 81321</u>
	<u>V JOYCE MARI</u>		<u>PAT WOOSLEY, PRES.</u>
	phone ( 303 ) <u>565-4993</u>		phone ( 303 ) <u>565-2458</u>
	account no. <u>N 3500 (10-31-94)</u>		account no. <u>N 7185</u>

Well(s) (attach additional page if needed):

Name: <u>LONE MT CYN 36-34/DSCR</u>	API: <u>43-037-30864</u>	Entity: <u>5985</u>	Sec <u>36</u> Twp <u>41S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MT CYN 1-11/DSCR</u>	API: <u>(43-037-31083)</u>	Entity: <u>6030</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MT CYN 1-33/TA</u>	API: <u>43-037-30908</u>	Entity: <u>11175</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MT CYN 1-44/DSCR</u>	API: <u>43-037-30847</u>	Entity: <u>6030</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 5-16-94)
- Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 10-28-94)
- Lec 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: #138522 (EH 8-25-89)
- Lec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- LWP 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. 10-31-94
- LWP 6. Cardex file has been updated for each well listed above. 10-31-94
- LWP 7. Well file labels have been updated for each well listed above. 11-1-94
- Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-31-94)
- Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- MC* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) \_\_\_\_ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

- N/A* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- \_\_\_\_ 2. A copy of this form has been placed in the new and former operators' bond files.
- \_\_\_\_ 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_\_\_. Today's date \_\_\_\_\_ 19\_\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_.

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A* 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

### FILMING

- ✓* 1. All attachments to this form have been microfilmed. Date: November 4 1994.

### FILING

- \_\_\_\_ 1. Copies of all attachments to this form have been filed in each well file.
- \_\_\_\_ 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

ROUTING	
1. DJJ	
2. CDW	

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**5/1/2007**

**FROM: (Old Operator):**

N3500-Colorado Pica Petroleum Corporation  
 2002 Rolling Rd  
 Cortez, CO 81321

Phone: 1 (303) 565-4993

**TO: ( New Operator):**

N1715-RIM Southwest Corporation  
 5 Inverness Dr E  
 Englewood, CO 80112

Phone: 1 (303) 799-9828

**CA No.**

**Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
LONE MT CYN 1-44	01	420S	240E	4303730847	6030	Indian	OW	P
LONE MT CYN 36-34	36	410S	240E	4303730864	5985	Indian	OW	P
LONE MT CYN 1-11	01	420S	240E	4303731083	6030	Indian	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/2/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/2/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 5/31/2007
- 4a. Is the new operator registered in the State of Utah: Business Number: 794466-0143
- 4b. If **NO**, the operator was contacted on: \_\_\_\_\_
- 5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: OK
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 5/31/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 5/31/2007
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: RLB0001937
- 3a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- 3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: NOO-C-14-20-5119
2. NAME OF OPERATOR: RIM Southwest Corporation <i>N1715</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
3. ADDRESS OF OPERATOR: 5 Inverness Drive East CITY Englewood STATE CO ZIP 80112		7. UNIT or CA AGREEMENT NAME: Lone Mountain Canyon #1-11
PHONE NUMBER: 303-799-9828		8. WELL NAME and NUMBER: 43-037-31083
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1180' FNL - 500' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 1 42S 24E		9. API NUMBER: 43-037-31083
		10. FIELD AND POOL, OR WILDCAT: Wildcat
		COUNTY: San Juan
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 05/01/07	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIM Southwest Corporation certifies that it is authorized by the proper lease interest owners to conduct operations associated with this application. Bond coverage pursuant to 43CFR3104 for lease activities is being provided by RIM Southwest Corporation with their BIA Bond RLB0001937.

Colorado Pica Petroleum Corporation, the previous operator, hereby names RIM as successor operator effective May 1, 2007.

COLORADO PICA PETROLEUM CORPORATION

*Joyce Mari*  
JOYCE MARI, PRESIDENT

*N3500*

RECEIVED

MAY 02 2007

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>RENE MORIN</u>	TITLE <u>VICE PRESIDENT</u>
SIGNATURE <i>René Morin</i>	DATE <u>4/25/2007</u>

(This space for State use only)

APPROVED 5/31/07

(5/2000)

*Earlene Russell*  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)